

No.	Cat.	Perf Name	Layers	Arpeggiator	Reverb type	Effect Chorus type	Variation type	Assign 1(Knob3)	Accian 2/Knob6 1)	Knob Assign	Accian 2/Knoh6 2)	Assign 2(Knob6-4)
1	Dr	um Trax1	1	On	Basement	Flanger1	2Band EQ	ArpgTempo	LFOAMod	LFOFMod	off	off
2	Sq	Sin*Arp	2	On	Hall1	Chorus4	Delay LCR	ArpgTempo	AEGDcyTime	FEGDcyTime	off	off
3	Sq	Kirmes	3	On	Tunnel	Celeste4	CrossDelay	VariCntrl	FEGDcyTime	FEGDcyTime	FEGDcyTime	off
4	Sq	Classic	2	On	Hall1	Chorus1	Delay LR	ChorusSend	FEGAtkTime	FEGAtkTime	off	off
5	Sq	Sequenza	1	On	Hall1	Chorus1	3Band EQ	ArpgTempo	ChorusSend	AEGDcyTime	AEGSusLvl	FEGSusLvl
6	Sq	RytField	2	On	Hall1	Chorus1	Delay LR	ChorusSend	FEGDcyTime	Pitch	LFOSpeed	LFOFMod
7		B-Luvva	2	On	Hall1	Chorus1	Auto Wah	ChorusSend	FEGSusLvI	ChorusSend	FEGDcyTime	AEGDcyTime
8	Sq	Obie Seq	2	On	Hall1	Chorus1	Symphonic	AEGDcyTime	ChorusSend	ChorusSend	off	off
9	Sq	Strobe	2	On	Hall1	Chorus1	Delay LCR	AEGDcyTime	Volume	Volume	off	off
10	Sq	Fly	1	On	Hall1	Chorus1	Delay LR	ChorusSend	FEGAtkTime	off	off	off
11	Sq	Vivaldi	2	On	Hall1	Chorus1	3Band EQ	AEGDcyTime	ChorusSend	ChorusSend	off	off
12	Sq	Dorian	2	On	Hall1	Chorus1	2Band EQ	ChorusSend	AEGDcyTime	AEGDcyTime	off	off
13	Sc	Rezline	4	Off	Hall1	Chorus1	2Band EQ	FEGDcyTime	ChorusSend	ChorusSend	ChorusSend	ChorusSend
14	Sc	Todd	2	Off/Sprit	Basement	Chorus4	Symphonic	AEGDcyTime	NoteShift	off	off	off
15	Sc	Thick	1	Off	Hall1	Celeste1	2Band EQ	ChoToRev	FEGAtkTime	off	off	off
16	Sc	Thin	4	Off	Hall1	Chorus1	2Band EQ	ChorusSend	AEGDcyTime	AEGDcyTime	ChorusSend	ChorusSend
17	Sc	CutGlass	2	Off	Hall1	Chorus1	Symphonic	RevChoSend	Volume	Volume	off	off
18	Sc	Universe	1	Off	Hall1	Chorus1	2Band EQ	FEGDcyTime	ChorusSend	off	off	off
19	Sc	Crispy	2	Off/Sprit	Basement	Flanger1	Rvrse Gate	FEGDcyTime	NoteShift	off	off	off
20	Sc	Fat Anne	1	Off	Hall1	Chorus1	Chorus4	RevChoSend	Pan	off	off	off
21	Sc	Brassy	1	Off	Hall1	Chorus1	Delay LR	ChorusSend	FEGAtkTime	off	off	off
22	Sc	TheWerks	2	Off/Sprit	Effect Off		Flanger2	ChorusSend	AEGDcyTime	AEGDcyTime	FEGSusLvl	FEGSusLvl
23	Sc	PulsMoD6	4	Off	WhiteRoom	Flanger2	2Band EQ	FEGDcyTime	FEGSusLvl	FEGSusLvl	FEGSusLvl	FEGSusLvl
24	Sc	Minora	3	Off	Hall1	Chorus1	2Band EQ	AEGDcyTime	Volume	Volume	Volume	off
25	Sc	Noble 'Q	3	Off	Hall1	Chorus1	Hall1	Pan	FEGDcyTime	FEGDcyTime	FEGAtkTime	off
26	Sc	Tex Sass	4	Off	Hall1	Chorus4	Delay LCR	VariCntrl	FEGDcyTime	FEGDcyTime	FEGDcyTime	FEGDcyTime
27	Sc	Quadra	2	Off	Hall1	Chorus1	2Band EQ	PortaTime	AEGDcyTime	AEGDcyTime	off	off
28	Sc	DistArp	2	Off	Hall1	Chorus1	Distortion	PortaTime	ChorusSend	ChorusSend	off	off
29	Sc	Digitz	2	Off	Hall1	Chorus1	Phaser1	AEGDcyTime	ChorusSend	ChorusSend	off	off
30	Sc	Odyssey	4	Off	Hall1	Celeste1	2Band EQ	FEGDcyTime	ChorusSend	ChorusSend	ChorusSend	ChorusSend
31	Sc	Doves	1	Off	Hall1	Chorus1	Delay LR	VariCntrl	FEGAtkTime	off	off	off
32	Fx	Airy	4	Off	Hall1	Chorus1	Hall1	ChorusSend	Volume	Volume	Volume	Volume
33	Fx	Paradise	3	Off	Hall1	Chorus1	Hall1	ChorusSend	Volume	Volume	Volume	off
34	Fx	Indies	2	Off	Hall1	Chorus1	Flanger3	ChorusSend	Volume	Volume	off	off
35	Fx	CSpace	3	Off	Hall1	Chorus1	Hall1	ChorusSend	off	Volume	off	off
36	Fx	Eerie	2	Off	Plate	Chorus1	Celeste1	RevChoSend	FEGDcyTime	FEGDcyTime	FEGAtkTime	FEGAtkTime
37	Fx	Ambient	1	Off	Hall1	Chorus1	Flanger3	RevChoSend	FEGAtkTime	FEGDcyTime	off	off
38	Fx	Morning	2	Off	Hall1	Chorus1	Celeste1	ChorusSend	Volume	Volume	off	off
39	Fx	CSphere	3	Off	Hall1	Chorus1	Celeste1	ChorusSend	Volume	Volume	Volume	off
40	Fx	MagicPad	4	Off	Hall1	Chorus1	Hall1	ChorusSend	Volume	Volume	Volume	Volume
41	Fx	Tintopia	2	Off/Sprit	Hall1	Chorus4	Delay LR	RevChoSend	Volume	Volume	off	off
42	Fx	FlowrArp	1	On	Hall1	Celeste2	Delay LR	ArpgTempo	ChorusSend	off	off	off
43		K.Scope	3	On	Hall1	Chorus1	Auto Wah	ArpgTempo	NoteShift	off	off	off
44		Orient	2	Off	Hall1	Flanger1	Phaser1	LFOSpeed	LFOAMod	LFOAMod	off	off
45	Fx	Omnivor	4	Off	Hall1	Chorus1	Phaser1	RevChoSend	Volume	Volume	Volume	Volume
46	Fx	Wheeleez	3	Off	Hall1	Chorus1	Flanger1	ChorusSend	Volume	Volume	Volume	off
47	Ва	Bassline	1	Off	Hall1	Celeste2	2Band EQ	FEGDcyTime	ChorusSend	off	off	off
48		Basslin2	2	Off	Hall1	Celeste1	2Band EQ	PortaTime	FEGAtkTime	AEGDcyTime	off	off
49	Ba	Super	2	Off	Hall1	Chorus1	2Band EQ	RevChoSend	FEGDcyTime	FEGSusLvl	FEGDcyTime	FEGSusLvl
50	Ва	Unison	3	Off/Sprit	Room1	Chorus1	Celeste1	FEGDcyTime	FEGAtkTime	FEGAtkTime	off	off
51	Ba	SQ-Bass	2	Off	Room1	Celeste1	2Band EQ	FEGDcyTime	FEGAtkTime	off	off	off
52		80sSynBs	4	Off	Room1	Chorus4	2Band EQ	FEGDcyTime	FEGSusLvl	FEGSusLvl	FEGSusLvl	FEGSusLvl
53	Ba	Pulsbass	2	Off	Hall1	Chorus1	3Band EQ	FEGDcyTime	off	Volume	off	off
54	Ba	Saw Bass	2	Off	Hall1	Chorus1	3Band EQ	FEGDcyTime	off	Volume	off	off
55	Ва	Fish 303	1	Off	Hall1	Chorus1	2Band EQ	ChorusSend	FEGAtkTime	off	off	off
56	Ba	SawnOff	2	Off	Hall1	Chorus4	3Band EQ	ChorusSend	FEGDcyTime	FEGDcyTime	FEGSusLvl	FEGSusLvl
57	Ba	CS 01	2	Off	Hall1	Celeste3	2Band EQ	ChorusSend	FEGAtkTime	FEGAtkTime	FEGSusLvl	FEGSusLvl
58	Ba	Mogue	2	Off	Plate	Chorus1	2Band EQ	RevChoSend	FEGDcyTime	FEGDcyTime	FEGSusLvl	FEGSusLvl
59	Ba	LeeDa	3	Off	Effect Off	Celeste2	Symphonic	ChorusSend	FEGSusLvl	AEGDcyTime	FEGSusLvl	Volume
60	Ba	Howler	3	Off	Effect Off	Celeste2	Rotary SP	ChorusSend	AEGAtkTime	FEGSusLvl	FEGAtkTime	AEGDcyTime
61	Ba	KickBass	3	Off	Room1	Chorus1	2Band EQ	FEGDcyTime	FEGSusLvl	FEGSusLvl	off	off
62	Ba	Sub	2	Off	Hall1	Chorus1	2Band EQ	PortaTime	FEGDcyTime	FEGDcyTime	off	off
63	Ld	Wasp	2	Off/Sprit	Effect Off	Flanger1	Auto Wah	FEGDcyTime	ChorusSend	FEGSusLvl	FEGSusLvl	off
64	Ld	E-no	2	Off	Hall1	Chorus1	Flanger1	RevChoSend	Volume	Volume	AEGDcyTime	FEGAtkTime

						Effect				Knob Assign		
No.	Cat.	Perf Name	Layers	Arpeggiator	Reverb type		Variation type	Assign 1(Knob3)	Assign 2(Knob6-1)	Assign 2(Knob6-2)	Assign 2(Knob6-3)	Assign 2(Knob6-4)
65	Ld	Fifths	2	Off/Sprit	Hall1	Chorus1	Echo	PortaTime			off	off
	_	TalkBox	3	Off/Sprit	Hall1	Chorus4	Phaser1	RevChoSend				off
67		Microdot	1	Off/Sprit	Hall1	Chorus1	Phaser1	ReverbSend		FEGDcyTime	AEGDcyTime	AEGSusLvl
68	_	Old Mini	2	Off/Sprit	Hall1	Celeste4	CrossDelay	FEGDcyTime				off
		NuSync	2	Off	Hall1	Flanger1	2Band EQ	ReverbSend				off
		Clanger	2	Off/Sprit	Hall1	Chorus1	CrossDelay	PortaTime			off	off
71		Old Reso	2	Off/Sprit	Hall1	Celeste4	Delay LR	FEGDcyTime				off
72		Sync	1	Off/Sprit	Hall1	Flanger1	CrossDelay	VariCntrl				off
73		Croma	2	Off/Sprit	Stage1	Celeste4	Flanger1	ChorusSend	Volume		off	off
		Big'm Up	4	Off	Hall1	Chorus1	Thru	ChorusSend		ReverbSend	ReverbSend	ReverbSend
75		Human	2	Off	Hall1	Chorus1		ChorusSend			off	off
76		Big Bob	2	Off	Hall1	Celeste4	Flanger1	PortaTime	FEGSusLvI	FEGSusLvl	AEGSusLvl	AEGSusLvl
		Firestar	2	Off/Sprit	Hall1	Flanger1	G.Amp Sim	ChorusSend	Pitch		Pitch	off
		Sevilla	2	Off	Hall1	Chorus1	2Band EQ	ReverbSend		AEGSusLvl	FEGDcyTime	AEGSusLvl
		CP80	1	Off	Room1	Chorus4	3Band EQ	ReverbSend		FEGDcyTime	FEGSusLvl	ChorusSend
		Woolitz1	2	Off/Sprit	WhiteRoom	Flanger1	3Band EQ	LFOAMod	Volume			off
		Tina	2	Off/Sprit	Stage1	Celeste4	2Band EQ	LFOFMod				off
		DX-Class	1	Off/Sprit	Hall1	Chorus1	3Band EQ	ChorusSend	-			off
		AmbiEp	2	Off	Hall1	Chorus1	Celeste1	ReverbSend				FEGDcyTime
		HipRodes	3	Off/Sprit	Hall1	Chorus1	Auto Pan	ReverbSend		off	Detune	off
	-	Hard	2	Off	Hall1	Celeste1	2Band EQ	ReverbSend	AEGDcyTime	AEGDcyTime	FEGDcyTime	FEGSusLvl
		Bell End	4	Off	Hall1	Chorus1	Symphonic	RevChoSend	Volume	Volume	Volume	Volume
		Compact	2	Off	Hall1	Chorus1	Rotary SP	ReverbSend	Volume			off
		Ensemble	2	Off	Hall1	Chorus1	Symphonic	ReverbSend	Volume			off
		Gospel	2	Off	Hall1	Chorus1	Rotary SP	ReverbSend	Volume	Volume	off	off
		Drawbars	4	Off	Hall1	Chorus1	Rotary SP	VariCntrl	Volume	Volume	Volume	Volume
		MissU	2	Off	Hall1	Chorus1	Flanger2	ChorusSend	Volume			off
		GlasOrgn	3	Off	Hall1	Celeste4	Rotary SP	Pan	Volume	Volume		off
		Angel St	3	Off/Sprit	Hall1	Celeste4	2Band EQ	ChorusSend	Volume		off	off
		IceField	3	Off/Sprit	Hall1	Chorus4	Delay LR	RevChoSend				off
		Memory	3	Off	Hall1	Chorus1	Symphonic	AEGDcyTime	off		FEGRelTime	FEGRelTime
		SickWave	3	Off	Hall1	Chorus1	Flanger2	RevChoSend	Pitch	AEGDcyTime		off
		Sprite	3	Off/Sprit	Hall1	Chorus1	Phaser1	VariCntrl	Volume			ReverbSend
		Trance	2	Off	Hall1	Chorus1	Phaser1	ChorusSend	Volume		off	off
	_	White	2	Off/Sprit	Hall1	Celeste1	CrossDelay	RevChoSend				off
		AirClass	2	Off/Sprit	Stage1	Celeste4	Flanger1	LFOAMod	Volume		off	off
		Carpet	3	Off/Sprit	Hall1	Effect Off	Delay LCR	FEGSusLvl				off
		Detroit	2	Off	Hall1	Flanger3	Delay LCR	VariCntrl				off
		Baroque	3	Off/Sprit	Room3	Chorus1	2Band EQ	ReverbSend		Detune	Volume	ReverbSend
		Octavia	3	Off	Hall1	Chorus1	Early Ref1	ChorusSend		Volume	Volume	off
		Jupiter	4	Off	Hall1	Chorus1	2Band EQ	ChorusSend		LFOPMod	LFOPMod	LFOPMod
		Strawman	2	Off	Hall1	Chorus1	Symphonic	ChorusSend			off	off
		Strynx	3	Off		Chorus1		ChorusSend		Volume		off
		Jump	2	Off	Hall1		Delay LCR	VariCntrl	NoteShift			off
		Bronze	2	Off	Hall1	Chorus1	3Band EQ	ChorusSend			off	off
		Xpander	2	Off	Hall1	Chorus1	2Band EQ	ChorusSend				off
		HansUp	4	Off/Sprit	Hall2	Chorus4	Delay LR	VariCntrl			ReverbSend	ReverbSend
		Prophy	4	Off	Hall1	Chorus1	2Band EQ	ReverbSend			ChorusSend	ChorusSend
		Matrix	4	Off	Hall1	Chorus1	2Band EQ	ReverbSend		ChorusSend	ChorusSend	ChorusSend
		Union	1	On	Hall1	Chorus1	Celeste2	PortaTime			FEGDcyTime	FEGSusLvl
		Vulcan	2	On	Hall1	Chorus1	Auto Wah	VariCntrl			ChorusSend	ChorusSend
		WStation	3	Off	Tunnel	Chorus4	Delay LCR	Pan	Volume			off
		Ghost	4	Off	Tunnel	Celeste2	Symphonic	Pitch				PEGInitLvI
		Choir	2	Off	Hall1	Chorus1	Hall1	ChorusSend	Volume			off
		Fragile	2	Off	Basement	Chorus4	2Band EQ	RevChoSend	FEGDcyTime		FEGSusLvl	FEGSusLvl
		Haendel	3	Off	Hall1	Chorus1	Hall1	ChorusSend	Volume	Volume		off
		WishUhea	4	Off/Sprit	Tunnel	Effect Off	Echo	LFOSpeed	FEGAtkTime		Cutoff	Cutoff
		Transit	4	On/Sprit	Hall1	Chorus4	Auto Pan	ArpgTempo				off
		Kit B900	4	Off	Room1	Chorus1	2Band EQ	RevChoSend				PEGInitLvI
		Kit 9o9	4	Off	Room1	Chorus1	2Band EQ	RevChoSend				PEGInitLvI
		Kit 808	4	Off	Room1	Chorus1	2Band EQ	RevChoSend				PEGInitLvI
	$\overline{}$					Chorus1	2Band EQ	RevChoSend				PEGInitLvI
	Dr	HipHop	4	UTT I	Room1	CHUIUSI	ZDallu LW	INCVOLIDACITA	II FOILIREAL	I LOIIIILLYI	LOIIIILLYI	
126		HipHop Jungly	4 4	Off Off	Room1	Chorus1	2Band EQ	RevChoSend				PEGInitLvI

						Effect				Knob Assign		
No.	Cat.	Perf Name	Layers	Arpeggiator	Reverb type	Chorus type	Variation type	Assign 1(Knob3)	Assign 2(Knob6-1)	Assign 2(Knob6-2)	Assign 2(Knob6-3)	Assign 2(Knob6-4)
1	Dr	um Trax2	1	On	Basement	Flanger1	2Band EQ	ArpgTempo	LFOFMod	LFOAMod	off	off
2		Pan Seq	2	On	Hall1	Chorus1	Auto Wah	FEGDcyTime	Volume	Volume	off	off
		MC-Line1	1	On	Basement	Flanger2	CrossDelay	ArpgTempo	LFOFMod	LFOAMod	off	off
		MC-Line2	2	On	WhiteRoom	Chorus2	Delay LR	ArpgTempo	Volume	Volume	off	off
		Superarp	4	On	Hall1	Chorus1	Delay LCR	AEGDcyTime	ChorusSend	ChorusSend	ChorusSend	ChorusSend
		uidgy 1	1	On	Room2	Chorus1	2Band EQ	ArpgType	Pitch	Resonance	Cutoff	LFOSpeed
		uidgy 2	1	On	Room2	Chorus1	2Band EQ	PortaTime	Pitch	Resonance	Cutoff	LFOSpeed
		HardOn	4	On	Hall1	Chorus1	Auto Wah	AEGDcyTime	Volume	Volume	Volume	Volume
		Platypus	2	On	Plate	Celeste2	Delay LR	AEGDcyTime	ChorusSend	Pitch	off	off
		Cyborg	2	Off	Hall1	Chorus1	Delay LR	VariCntrl	LFOFMod	LFOFMod	FEGDcyTime	FEGDcyTime
		uelchy	2	On	Hall1	Celeste2	Delay LR	ArpgType	ChorusSend	Pitch	AEGDcyTime	AEGDcyTime
	Sq	uenza 1	1	On	Hall1	Chorus1	Auto Pan	FEGDcyTime	ChorusSend	off	off	off
		uenza 2	2	On	Hall1	Chorus1		ChorusSend	FEGDcyTime	FEGDcyTime	off	off
		Erased	2	On	Hall1	Chorus1	Flanger1	ChorusSend	off	AEGDcyTime	AEGDcyTime	off
		uare Dig	2	On	Hall1	Chorus1	Phaser1	FEGAtkTime	Volume	Volume	off	off
		Pulse	1	On	Hall1	Chorus1	Symphonic	FEGDcyTime	ChorusSend	off	off	off
		Ethno	4	On	Room1	Chorus1	2Band EQ	ArpgTempo	LFOSpeed	LFOAMod	NoteShift	NoteShift
		CofiFilt	1	Off/Sprit	Hall1	Chorus1	Flanger2	LFOSpeed	FEGAtkTime	ChorusSend	off	off
		SparkRun	2	On	Stage1	Flanger1	CrossDelay	VariCntrl	Volume	Volume	off	off
		SinCrony	4	Off	Effect Off	Flanger1	Delay LR	LFOSpeed	FEGDcyTime	FEGDcyTime	FEGDcyTime	FEGDcyTime
		SweepRun	2	On	Effect Off	Flanger1	CrossDelay	VariCntrl	LFOAMod	LFOAMod	LFOFMod	LFOFMod
		Break It	2	On	Hall1	Chorus2	Phaser1	ArpgTempo	LFOAMod	LFOAMod	LFOFMod	LFOFMod
		Syndiem	3	On	Hall1	Chorus1		ChorusSend	off	Volume	off	off
		TranCS	4	Off	Hall1	Celeste1	Phaser1	FEGDcyTime	Volume	Volume	Volume	Volume
		Source	4	Off	Hall1	Chorus1	3Band EQ	FEGAtkTime	Volume	Volume	Volume	Volume
		ary	4	Off	Hall1	Chorus1		ChorusSend	ReverbSend	ReverbSend	ReverbSend	ReverbSend
		EurRail	2	Off	Hall1	Chorus1	Flanger2	ReverbSend	FEGAtkTime	Volume	off	off
		Owa Owa	2	Off	Hall1	Chorus1		RevChoSend	FEGDcyTime	Resonance	AEGDcyTime	AEGSusLvl
		Xrayz	2	Off	Hall1	Chorus1	Auto Wah	VariCntrl	Volume	AEGDcyTime	LFOSpeed	off
		ResoCat	_	Off/Sprit	Hall1	Celeste4	Delay LR	FEGAtkTime	LFOFMod	off	off	off
		Glassy	3	On	Hall1	Chorus1	Celeste1	AEGDcyTime	Volume	Volume	Volume	off
		Synchord	4	Off	Hall1	Chorus1	CrossDelay	AEGDcyTime	Volume	Volume	Volume	Volume
		C-Hook	2	Off	Hall1	Chorus1		PortaTime	ChorusSend	ChorusSend	off	off
		raper	1	Off	Hall1	Chorus1	3Band EQ	RevChoSend	PEGAtkTime	off	off	off
		Stab	2	Off	Hall1	Chorus1		Pan	ChorusSend	ChorusSend	off	off
		MoonBass	2	Off	Hall1	Celeste3	Auto Wah	VariCntrl	LFOSpeed	off	off	off
		UniLead	2	Off/Sprit	Hall1	Chorus1		PortaTime	Volume	Volume	AEGDcyTime	off
		4Poles	3	Off	Effect Off	Celeste2		ChorusSend	Pitch	FEGSusLvl	off	off
		Cream	1	Off	Hall1	Chorus1	Delay LR	VariCntrl	ChorusSend	FEGAtkTime	off	off
		Zap Lead	2	Off/Sprit	Basement	Flanger1		ChorusSend	Volume	Volume	off	off
		The Hook	3	Off	Hall1	Chorus1	Delay LR	VariCntrl	Volume	Volume	Volume	Volume
42		Triangle	2	On	Hall1	Chorus1		PortaTime	FEGSusLvl	FEGSusLvl	off	off
43		Fuji	3	Off	Hall1	Chorus1		VariCntrl	FEGDcvTime	FEGDcyTime	FEGSusLvl	FEGSusLvI
		MegaHook	4	Off	Hall1	Chorus1		VariCntrl	FEGSusLvl	FEGSusLvl	FEGSusLvI	FEGSusLvI
		Mondo	2	Off/Sprit	Hall1	Chorus1		ChorusSend	FEGDcyTime	FEGDcyTime	FEGSusLvI	FEGSusLvl
		Marion	3	Off/Sprit	Hall1	Chorus1		ChorusSend	FEGSusLvl	FEGDcyTime	FEGDcyTime	Pitch
		Seminal	3	Off/Sprit	Hall1	Chorus1	Auto Wah	ChoToRev	Pitch	AEGDcyTime	Pan	off
		Pure Sin	2	Off	Hall1	Chorus1	Delay LCR	VariCntrl	ReverbSend	ReverbSend	off	off
		Vollfett	2	Off	Hall1	Chorus1		ChorusSend	Volume	Volume	off	off
		Empha	1	Off/Sprit	Hall1	Celeste3		Pitch	LFOFMod	LFOAMod	off	off
		Fashions	2	Off	Hall1	Chorus1	Flanger2	ChorusSend	Detune	ReverbSend	PEGInitLvI	FEGAtkTime
		Relaxer	1	Off	Hall1	Chorus1	Rotary SP	FEGDcyTime	AEGDcyTime	ChorusSend	off	off
		ss Wire	2	Off	Effect Off	Celeste2		ChorusSend	FEGAtkTime	FEGSusLvl	AEGDcyTime	off
		Wound	1	Off/Sprit	Basement	Chorus4		PortaTime	LFOFMod	off	off	off
		Fridge	2	On	Basement	Flanger1		RevChoSend	LFOAMod	LFOAMod	LFOFMod	LFOFMod
		ss Sine	2	Off	WhiteRoom	Flanger1	2Band EQ	ReverbSend	LFOAMod	LFOAMod	off	off
		Saw 1	1	Off/Sprit	Hall1	Chorus1		PortaTime	FEGDcyTime	FEGSusLvl	off	off
		Saw 2	1	Off/Sprit	Hall1	Chorus1		RevChoSend	FEGDcyTime	FEGSusLvI	AEGSusLvl	AEGDcyTime
		Pulse25	1	Off	Hall1	Chorus1	3Band EQ	RevChoSend	FEGSusLvl	FEGDcyTime	AEGDcyTime	AEGSusLvl
		Fuzzline	1	Off	Hall1	Celeste1	Distortion	VariCntrl	ChorusSend	off	off	off
		llistic	2	Off	Hall1	Chorus1		ChorusSend	Volume	Volume	Volume	Volume
		303 Wave	1	Off	Hall1	Chorus1	2Band EQ	ChorusSend	FEGSusLvI	off	off	off
		Howitzer	1	Off	Hall1	Chorus1		ChorusSend	FEGDcyTime	FEGSusLvl	PEGAtkLvI	AEGDcyTime
63	Ba	I □OWIIZEI —										

						Effect				Knob Assign		
No.	Cat.	Perf Name	Layers	Arpeggiator	Reverb type	Chorus type	Variation type	Assign 1(Knob3)	Assign 2(Knob6-1)		Assign 2(Knob6-3)	Assign 2(Knob6-4)
65	Ρf	70'sClav	2	Off	Room3	Chorus1	3Band EQ	ChorusSend	VelSnsDpth	Resonance	off	off
	Ρf	Woolitz2	2	Off/Sprit	Stage1	Flanger1	G.Amp Sim	LFOAMod	Volume	Volume	off	off
67	Ρf	DynaRose	3	Off		Celeste1	Thru	ChorusSend	LFOAMod	LFOAMod	LFOAMod	Volume
68	Ρf	Major 7	4	Off/Sprit		Chorus1	2Band EQ	AEGDcyTime	Volume	Volume	Volume	Volume
	Ρf	SweetFen	3	Off/Sprit		Chorus1	2Band EQ	ChorusSend	AEGDcyTime	AEGDcyTime	AEGDcyTime	off
70	Ср	Xylodyne	2	Off/Sprit		Chorus1	Delay LCR	VariCntrl	Volume	Volume	off	off
71	Or	ganMetal	4	Off	Room1	Chorus4	Rotary SP	ReverbSend	FEGSusLvl	FEGSusLvl	FEGSusLvl	FEGSusLvl
72	Or	YC45D	2	Off/Sprit	Room1	Chorus1	G.Amp Sim	ChorusSend	Volume	Volume	off	off
73	Or	Door	2	Off	Hall1	Chorus1	2Band EQ	ReverbSend	Volume	Volume	Cutoff	off
74	Or	gan Perc	4	Off	Hall1	Chorus1	Rotary SP	VariCntrl	Volume	Volume	Volume	off
75	Or	gan Rave	3	Off	Hall1	Chorus1	3Band EQ	ChorusSend	Volume	Volume	Volume	off
76	Or	Celluli	2	Off	Plate	Chorus1	Rotary SP	ReverbSend	Volume	Volume	ChorusSend	ChorusSend
77	Gt	Tele	2	Off	Hall1	Chorus1	G.Amp Sim	ReverbSend	Volume	Volume	off	off
78	Gt	EzaGeeza	2	Off	Hall1	Chorus1	G.Amp Sim	ChorusSend	Pitch	ReverbSend	AEGDcyTime	off
	Br	Obie	1	Off	Hall1	Celeste3	Chorus4	ReverbSend	FEGSusLvl	FEGDcyTime	off	off
	Br	Cross	4	Off/Sprit	Hall1	Chorus1	Delay LCR	VariCntrl	Pitch	ChorusSend	ChorusSend	ChorusSend
	Br	ass Tek	2	Off/Sprit		Chorus1	2Band EQ	RevChoSend	FEGSusLvl	FEGSusLvl	off	off
	Br	assHouse	3	Off	Hall1	Chorus1	2Band EQ	RevChoSend	Volume	Volume	Volume	off
	Br	ass Fase	2	Off/Sprit		Chorus4	Phaser1	FEGDcyTime	FEGAtkTime	FEGAtkTime	off	off
84	St	Sweepstr	3	Off		Chorus1	Symphonic	ChorusSend	Cutoff	Volume	Cutoff	Resonance
	St	Vintage	11	Off		Chorus1	Chorus3	ChorusSend	Pan	off	off	off
	St	Strngpad	2	Off		Chorus1	2Band EQ	RevChoSend	NoteShift	off	off	off
	St	Bartok	2	Off		Chorus1	Early Ref1	ChorusSend	ReverbSend	ReverbSend	off	off
	St	Vienna	2	Off	Hall1	Chorus1	Stage2	RevChoSend	Detune	Detune	off	off
	St	Filta Fe	1	Off		Chorus1	Symphonic	RevChoSend	Resonance	FEGAtkTime	AEGAtkTime	FEGDcyTime
	Pd	MilkyWay	3	Off/Sprit		Chorus1	Hall1	ChorusSend	Volume	Volume	Volume	off
	Pd	SlvrThaw	2	Off/Sprit	Hall1	Chorus1	Symphonic	LFOAMod	Volume	Volume	off	off
	Pd	Solinal	3	Off		Chorus1	Phaser1	VariCntrl	Pitch	Pitch	Volume	Volume
	Pd	Spooks	2	Off/Sprit		Chorus1	Phaser2	RevChoSend	AEGDcyTime	Pitch	off	off
	Pd	Swell	2	Off		Chorus1	Chorus1	ChorusSend	FEGAtkTime	FEGAtkTime	off	off
	Pd	VS-Pad	2	Off		Chorus1	Symphonic	ChorusSend	Volume	Volume	off	off
	Pd	Amber	11	Off/Sprit	Hall1	Celeste2	Delay LR	RevChoSend	FEGAtkTime	FEGSusLvl	FEGRelTime	off
	Pd	Aurora	3	Off	Hall1	Chorus1	Phaser1	RevChoSend	Volume	Volume	Volume	Detune
	Pd	Crystal	3	Off		Chorus1	Delay LR	RevChoSend	Volume	Volume	Volume	AEGDcyTime
	Pd	Haze	2	Off		Flanger3	Delay LR	ChorusSend	LFOFMod	LFOFMod	Detune	Detune
	Pd	FSOTokyo	2	Off	Hall1	Chorus1	Celeste3	RevChoSend	FEGDcyTime	FEGSusLvl	FEGRelTime	Volume
	Fx	Tribal	3	Off	Hall1	Chorus1	Over Drive	FEGDcyTime	Volume	Volume	off	off
	Fx	Plankton	1	Off	Hall1	Chorus1	Auto Wah	VariCntrl	ChorusSend	off	off	off
103	Fx	Ryza	3	Off		Chorus1	Celeste2	RevChoSend	ChorusSend	AEGAtkTime	FEGSusLvl	Resonance
104	Fx	Gaia '99	4	Off	Tunnel	Chorus4	3Band EQ	RevChoSend	Pitch	Volume	Resonance	Volume
	Fx	Lights	3	Off	Hall1	Chorus1	Delay LR	VariCntrl	Volume	off	off	off
106	Fx	Morf	3	Off		Chorus1	CrossDelay	RevChoSend	Volume	AEGAtkTime	AEGAtkTime	off
	Fx	QSpaces	4	Off		Chorus1	Hall1	ChorusSend	off	off	off	off
		WatrToy	3	Off/Sprit		Celeste1		RevChoSend	Volume	Volume	LFOAMod	off
	Fx	Galaxy	2	Off		Chorus4	Delay LR	RevChoSend	Volume	Volume	off	off
	Fx	Trigger	1	Off	Hall1	Chorus1	3Band EQ	Pitch	ChorusSend	LFOFMod FFC Attains	off FFCDayTime	off FFCDayTime
	Fx	Resolve	2	Off/Sprit		Chorus1	CrossDelay	RevChoSend	FEGAtkTime	FEGAtkTime	FEGDcyTime	FEGDcyTime
112	Et	Santur	3	Off		Chorus1	2Band EQ	RevChoSend Ditab	Volume LFOAMod	Volume	Volume	off off
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							CrossDelay Dolay I CP	ArpgTempo	NoteShift	off	off	off
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	Se	BeatPhil	2	On		Flanger2	2Band EQ	ArpgType	ReverbSend	ReverbSend	ChorusSend	ChorusSend
	Se	Organix	3	Off		Chorus1	Delay LCR	VariCntrl	off	Volume	Volume	Volume
	Se	Variant	2	Off/Sprit		Chorus1	Flanger2	LFOFMod	LFOSpeed	LFOSpeed	AEGDcyTime	AEGDcyTime
	Se	SkyDemon	2	Off/Sprit		Flanger3	Delay LR	LFOSpeed	Volume	Volume	off	off
121	Vo	oo Dooo	4	Off/Sprit	Hall1	Chorus1	2Band EQ	ReverbSend	Volume	Volume	Pitch	ChorusSend
122	Vo	xo Mono	4	Off		Chorus1	Delay LR	VariCntrl	ReverbSend	ReverbSend	ReverbSend	ReverbSend
123	Vo	Tehillim	2	On	Plate	Chorus4	Delay LR Delay LR	VariCntrl	FEGDcyTime	FEGDcyTime	off	off
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1/4		ld Hitz	4	Off/Sprit		Flanger1	Room1	ChorusSend	off	Pitch	Pitch	Pitch
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2 BritePno
3 E.Grand
4 HnkyTonk
5 E.Piano1
6 E.Piano2
7 Harpsi.
8 Clavi Det.CP80 ElGrPno1 2 DXLegend 8 Clavi.
9 Celesta
10 Glocken
11 MusicBox
12 Vibes
13 Marimba ClaviWah 12 Vibes 13 Marimba 14 Xylophon 15 TubulBel | 17 | DrawOrgn | 18 | PercOrgn | 19 | RockOrgn | 19 | RockOrgn | 20 | ChrichOrg | 22 | Acordion | 21 | ReedOrgn | 22 | Acordion | 23 | Harmmica | 24 | TangoAcd | 25 | NylonGir | 26 | SteelGir | 27 | Jazz Gir | 28 | CleanGir | 29 | Muto Gir | 29 | Muto Gir | 31 | Dist.Gir | 33 | Aco.Bass | 35 | PickBass | 35 | PickBass | 37 | SiapBast | 38 | SiapBasz | 39 | SynBass | 39 | SynBass | 40 | SynBass | 41 | Viola | 42 | Viola | 43 | Cello | 44 | Contrabs | 45 | Tiren Str | 46 | Pizz.Str | 47 | Harp | 48 | Timpani | 48 | Timpani | 48 | Timpani | 48 | Timpani | 49 | Timpani | 49 | Timpani | 40 | Timpani | 4 DetDrwOr 2 60sDrOr1 DetPrcOr 2 LiteOrg 2 DrawOrg2 2 60sDrOr3 2 EvenBar PercOrg2 2 2 60sDrOr2 2 70sDrOr1 16+2"2/3 Puff Org 12StrGtr Nyln&Stl FeedbkGt FlangeBa 2 MutePkBa Ba&DstEG 2 Fretles3 Clv Bass SmthBa 2 Susp Str YangChin 48 Timpani
49 Strings1
50 Strings2
51 Syn.Str1
52 Syn.Str2
53 ChoirAah
54 VoiceOoh
55 SynVoice
56 Orch.Hit
57 Trumpet
59 Tuba
60 Mute.Trp
61 Fr.Horn
62 BrasSect
63 SynBras1
64 SynBras1 60sStrng SynVox2 WarmTrp Tp&TbSec | 63 SynBras1 |
64 SynBras2 |
65 SprnoSax |
66 Alto Sax |
67 TenorSax |
68 Bari.Sax |
69 Oboe |
70 Eng.Horn |
71 Bassoon |
72 Clarinet |
73 Piccolo |
74 Fiute |
75 Recorder |
76 PanFlute |
77 Bottle |
78 Shakhchi |
79 Whistle |
80 Ocarina |
81 SquareLd | SynBras3 JumpBrss SynBras4 80 Ocarina
 81 SquareLd
 82 Saw.Lead
 83 CaliopLd
 84 Chiff Ld
 85 CharanLd
 86 Voice Ld
 87 Fifth Ld
 88 Bass &Ld
 89 NewAgePd 2 WaspySyn Big Five 89 NewAgePd
90 Warm Pad
91 PolySyPd
92 ChoirPad
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94 MetalPad
95 Halo Pad
96 SweenPad 95 Halo Pad 96 SweepPad 97 Rain 98 SoundTrk 99 Crystal 100 Atmosphr 101 Bright 102 Goblins 103 Echoes 104 Sci-Fi Converge Prologue RndGlock 104 Sci-Fi 105 Sitar 106 Banjo 107 Shamisen 108 Koto 109 Kalimba 110 Bagpipe 111 Fiddle 112 Shanai Sitar 2 MuteBnjo 113 TnklBell
114 Agogo
115 SteelDrm
116 WoodBlok
117 TaikoDrm
118 MelodTom
119 Syn.Drum
120 RevCymbl BrthNoiz 124 Tweet 125 Telphone 126 Helicptr 127 Applause

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 EL Bank 64
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 EL Bank 67
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 EL Bank 69
 EL Bank 1 GrandPno
2 BritePno
3 E.Grand
4 HnkyTonk
5 E.Piano1
6 E.Piano2
7 Harpsi.
8 Clavi. 2 60sEI.P 2 DX+Analg 2 DXKotoEP VX EI.P2 9 Celesta 10 Glocken 11 MusicBox Orgel 12 Vibes
13 Marimba
14 Xylophon
15 TubulBel
16 Dulcimer
17 DrawOrgn
18 PercOrgn
19 RockOrgn
20 ChrichOrg
21 ReedOrgn
22 Harminca
22 Harminca
23 Harminca
24 TangoAcd
25 NylonGtr
26 SteelGtr
27 Jazz Gtr
28 CleanGtr
29 Mute Gtr
30 Ovrdrive
31 Dist.Gtr
32 GtrHarmo
31 Dist.Gtr
32 GtrHarm HardVibe SineMrmb Organ OrgFlute TngoAcd2 Guitar 1 MuteStIG FunkGtr2 2 Jazz Man Gt.Pinch 1 FeedbGt2 GtFeedbk 33 Aco. Bass
34 FngrBass
35 PickBass
36 Fretless
37 SiapBas1
38 SiapBas2
39 SynBass
40 SynBass2
41 Voide
42 Viola
43 Cello
44 Contrabs
45 Trem.Str
46 Pizz. Str
47 Harp
48 Timpani
49 Strings1
50 Strings2
51 Syn.Str
52 Syn.Str
53 ChoirAsh
54 VoiceOoh
55 SynVoice
56 Orch.Hit
57 Trumpet
55 Trumpet
56 Orch.Hit
57 Trumbet
58 Trombone
69 Tuba
60 Mute. Trom
62 BrasSect
61 SynBras1
63 SynBras1
64 SynBras2
65 SymCsax
66 Alto Sax
67 TenorSax
68 Barl. Sax
69 Oboe
70 Eng.Horn
71 Bassoon
71 Bassoon
72 Clarinet
73 Piccole
75 Recorder
76 PanFlute
75 Recorder
77 Bottle
77 Bottle VXUprght 2 FngBass2 VeloSlap 1 2 DX Bass 2 SqrBass 1 RubberBa 1 Orchstr2 1 Kingdom 2 1 Choral AnaVoice Impact 1 HiBrass 2 MelloBrs AnaVelBr VelBras2 78 Shakhchi 79 Whistle 79 Whistle
80 Ocarina
81 SquareLd
82 Saw.Lead
83 CaliopLd
84 Chiff Ld
85 CharanLd
86 Voice Ld
87 Fifth Ld Synth Lead 2 Dr. Lead DistLead VoxLead 87 Fifth Ld
88 Bass &Ld
89 NewAgePd
90 Warm Pad
91 PolySyPd
92 ChoirPad
93 BowedPad
94 MetalPad
95 Haio Pad
96 SweepPad
97 Rain
98 SoundTrk
99 Crystal
100 Atmosphr
101 Bright
102 Goblins
103 Echoes Fat&Prky Fantasy2 Hom Pad PolyPd80 2 SoftWurl Synth Pad 2 Ana Pad Heaven2 Itopia Tine Pad Pan Pad 2 HrmoRair Ancestrl SynMalet NylnHarp FantaBel SftCryst Harp Vox 2 50sSciFi 2 ToHeaven 2 Stardust 2 Ring Pad 2 Ritual GobSyn Night 2 Reso Pan 2 Big Pan 105 Sitar 106 Banjo 107 Shamisen 109 Kalimba 111 Fiddle
112 Shanai
113 TnklBell
114 Agogo
115 SteelDrm
116 WoodBlok
117 TaikoDrm
118 MelodTom Mel Tom2 1 Real Tom Ana Tom 1 ElecPerc 2 Rock Tom 119 Syn.Drum 125 Telphone

127 Applause

Bank Select MSB=000, LSB=Bank Number

Instrument Group	Pgm #	Bank 0	EL	Bank 72	EL	Bank 96	EL	Bank 97	EL	Bank 98	EL	Bank 99	EL	Bank 100	EL	Bank 101	Е
Piano	1	GrandPno	1														ļ
	3	BritePno E.Grand	1										H				H
	5	HnkyTonk E.Piano1	2				F		F				F				F
	6	E.Piano2	2				Ė						İ				İ
	7	Harpsi. Clavi.	1		-		H		H		H		⊦		H		H
Chromatic	9	Celesta	1				F						F				F
Percussion	10	Glocken MusicBox	2				H		H				+		\vdash		H
	12	Vibes	1				F	Deletero	_	Les Deser	_		F				ļ
	13	Marimba Xylophon	1				H	Balafon2	2	Log Drum	2		H		H		H
	15 16	TubulBel	1			ChrchBel Cimbalom	2	Carillon Santur	2				L				F
Organ	17	Dulcimer DrawOrgn	1			Cimbalom	_	Santur	_				t				ŀ
	18 19	PercOrgn RockOrgn	1				L						F				F
	20	ChrchOrg	2				Ė						t				İ
	21	ReedOrgn Acordion	1				H		H		L		\vdash		H		ŀ
	23	Harmnica	1				Ė						t				İ
Guitar	24 25	TangoAcd NylonGtr	1			Ukulele	1		H		H		+		H		ŀ
	26	SteelGtr	1			Mandolin	2						İ				İ
	27	Jazz Gtr CleanGtr	1		-		H		H		H		╁		H		ŀ
	29	Mute.Gtr	1										L				İ
	30	Ovrdrive Dist.Gtr	1				H						\vdash				ŀ
	32	GtrHarmo	1				L						L				ļ
Bass	33	Aco.Bass FngrBass	1				H						+				ŀ
	35	PickBass	1										İ				ľ
	36	Fretless SlapBas1	1			SynFretI	2	Smooth	2		-		+		H		ŀ
	38	SlapBas2	1				İ						İ				İ
	39 40	SynBass1 SynBass2	2			Hammer	2		H		_		⊢		H		ŀ
Strings	41	Violin	1				Ė		Ė				İ				İ
	42 43	Viola Cello	1				H		H		L		╀		H		ŀ
	44	Contrabs	1				t						t				t
	45 46	Trem.Str Pizz.Str	1				L						H				F
	47	Harp	1				H		H				t				t
Ensemble	48	Timpani	1										L				F
Ensemble	49 50	Strings1 Strings2	1		-		H		H				H		Н		t
	51	Syn.Str1	2										F				ļ
	52 53	Syn.Str2 ChoirAah	2				H		H		-		+		H		H
	54	VoiceOoh	1				L						F				I
	55 56	SynVoice Orch.Hit	2				H		H		-		+		\vdash		H
Brass	57	Trumpet	1										F				Ī
	58 59	Trombone Tuba	1				\vdash		H		H		+		\vdash		H
	60	Mute.Trp	1				L						İ				İ
	61 62	Fr.Hom BrasSect	1				H						+		H		ŀ
	63	SynBras1	2														İ
Reed	64 65	SynBras2 SprnoSax	1				\vdash		H		H		+		H		ŀ
11000	66	Alto Sax	1										L				ľ
	67 68	TenorSax Bari.Sax	1				H		H				╀		H		ŀ
	69	Oboe	2				Ė						İ				İ
	70	Eng.Horn Bassoon	1				H		H		_		\vdash		H		ŀ
	72	Clarinet	1				Ė						İ				İ
Pipe	73 74	Piccolo Flute	1				H		H		_		╀		H		ŀ
	75	Recorder	1				İ						İ				İ
	76 77	PanFlute Bottle	1 2		-		H		H		L		╀		H		H
	78	Shakhchi	2				L						t				İ
	79 80	Whistle Ocarina	1				H						╀				ŀ
Synth Lead	81	SquareLd	2														t
	82 83	Saw.Lead CaliopLd	2			Seq Ana	2						╀				ŀ
	84	Chiff Ld	2										t				t
	85 86	CharanLd Voice Ld	2				L		L		_		╀		L		ŀ
	87	Fifth Ld	2				H						t				t
Synth Pad	88	Bass &Ld NewAgePd	2				H		L				╀				ŀ
Oynur r au	90	Warm Pad	2				t						t				t
	91 92	PolySyPd ChoirPad	2				L						H				F
	93	BowedPad	2				H		Н				t		\vdash		t
	94	MetalPad Halo Pad	2				L						L				F
	95 96	SweepPad	2		=		H		H				H				t
Synth Effects	97 98	Rain	2										F				F
	99	SoundTrk Crystal	2	Gamelmba	2		H		H				H				t
	100	Atmosphr	2			Omelini	2						F				Ī
	101	Bright Goblins	2		-	Smokey BelChoir	2		H		-		+		Н		H
	103	Echoes	2										F				ļ
Ethnic	104	Sci-Fi Sitar	2		-	Tambra	2	Tamboura	2				+		Н		H
	106	Banjo	1			Rabab	2	Gopichnt	2	Oud	2		F				ļ
	107	Shamisen Koto	1		-	T. Koto	2	Kanoon	2		H		╁		\vdash		H
	109	Kalimba	1										L				
	110	Bagpipe Fiddle	1				H		H		H		H				t
	112	Shanai	1		Í	Pungi	1	Hichriki	2		Ĺ		Ĺ				Ī
Percussive	113	TnklBell Agogo	2			Bonang	2	Gender	2	Gamelan	2	S.Gamlan	2	Rama Cym	2	AsianBel	ŀ
	115	SteelDrm	2					GlasPerc	2	ThaiBell	2		Ĺ				ľ
	116 117	WoodBlok TaikoDrm	1			Castanet Gr.Cassa	1						H				H
	118	MelodTom	2				Ė						Ĺ				ľ
	119	Syn.Drum RevCymbl	1		ĺ		F		F		F		F		F		É
	121	FretNoiz	2				t		t		Ė		t		t		t
Sound Effects		Dark Mala	2		1		1		1				Ĺ		1		ſ
Sound Effects	122	BrthNoiz Seashore															Т
Sound Effects	122 123 124	Seashore Tweet	2				F						H		E		
Sound Effects	122 123	Seashore	2														

Pgm #	Bank 102 CuttngNz	EL 1
2	CuttngNz CttngNz2	2
3	Str Slap	1
5		
7		
9		
10		Ŧ
11		Í
13 14		H
15 16		I
17	FI.KClik	1
18 19		
20 21		F
22		Ŧ
23 24		t
25 26		t
27 28		H
29		Í
30 31		ĺ
32 33	Rain	1
34	Thunder	1
36	Wind Stream	2
37 38	Bubble Feed	2
39 40		
41		t
42 43		
44 45		f
46		İ
47 48		f
49 50	Dog Horse	1
51 52	Bird 2	1
53		
54 55	Ghost	2
56 57	Maou	2
58		Í
59 60		
61 62		I
63		
64 65	Tel.Dial	1
66 67	DoorSqek Door Slam	1
68 69	Scratch	1 2
70	Scratch 2 WindChm	1
71 72 73	Telphon2	1
73 74		f
75		Í
76 77		I
78 79		ľ
80	CarEna!-	Į.
81 82	Car Stop	1
83 84	Car Pass CarCrash	1
85 86	Siren Train	2
87	Jetplane	2
88 89	Starship Burst	2
90 91	Coaster SbMarine	2
92		ĺ
93 94		
95 96		H
97 98	Laughing Scream	1
99	Punch	1
100	Heart FootStep	1
102 103		
104		Í
105 106		f
107 108		F
109		Í
110 111		
112 113	MchinGun	1
114	LaserGun	2
115	Xplosion FireWork	2
117 118		
119		ľ
121		
		4
123		\perp

Bank Select MSB=Bank Number LSB=000 Same as Bank 0

Instrument Group	Pgm #	Bank 0	EL	Bank 1	EL	Bank 2	EL	Bank 3	EL	Bank 4	EL	Bank 5	EL	Bank 6	L	Bank 7	EL	Bank 8	EL	Bank 9	EL	Bank 10	EL	Bank 11	EL	
Piano	1	GrandPno	1												1			GrndPnoK	1							М
	3	BritePno E.Grand		ElGrPno1	2	ElGrPno2	2								1			BritPnoK ElGrPnoK	2				Ш			
	5	HnkyTonk E.Piano1	2		H		Н		Н		Н				7		Н	HnkyTnkK Chor.EP1	2		H		\mathbf{H}			V.
	6	E.Piano2	2								П				#			Chor.EP2	2				\Box			٧
	7	Harpsi. Clavi.	1 2		Н		Н		Н		Н		Н		+			Harpsi.3 Clavi. K	1		Н		+		Н	Н
Chromatic	9	Celesta	1		Ħ						П				#		П		Ė		I		\Box			
Percussion	10	Glocken MusicBox	2		Н		H		Н		Н		Н		+		Н		\vdash		Н		+		\dashv	H
	12	Vibes		HardVibe	2										1			VibesK	1				Ш			
	13 14	Marimba Xylophon	1		Н		H		Н		Н		H		+		Н	MarimbaK	1		Н		+			
	15	TubulBel	1				H				Н				1		Н	ChrchBel	2	Carillon	2		Ш			
Orana	16 17	Dulcimer		Dulcimr2 70sDrOr1	2		H		Н		Н				7			Cimbalom DetDrwOr	2	70°DrOr2	2		Н			6
Organ		DrawOrgn PercOrgn		70sDrOr1 70sPcOr1	2		H		Н		Н		H		+			DetDrwOr	2	70sDrOr2	-		+			6
	19	RockOrgn	2				П		П		П				1		П	RotaryOr	2				П			S
	20	ChrchOrg ReedOrgn	1		Н		\vdash		Н		Н		Н		+		Н	ChurOrg2	2		Н		++			С
	22	Acordion	2		ļ.										#			Accordit	2				\Box			
	23	Harmnica TangoAcd	2	Harmo 2	2		H		Н		Н		Н		+		Н		┝		Н		++			-
Guitar	25	NylonGtr	1												1			Ukulele	1				\Box			N
	26 27	SteelGtr Jazz Gtr	1	MelloGtr	1		H		Н		Н		Н		+		Н	12StrGtr PdlSteel	1	Nyln&StI	2		+		Н	М
	28	CleanGtr	1	Wichiooti	Ė										1			ChorusGt	2				Ш			
	29 30	Mute.Gtr	1		H		Н		Н		Н				+		Н	FunkGtr1	2		H		Н			F
	31	Ovrdrive Dist.Gtr	1		Н		H				Н				+		Н	FeedbkGt	2	FeedbGt2	2		Ħ			
	32	GtrHarmo	1								П				1		П	GtFeedbk	1				П			
Bass	33	Aco.Bass FngrBass	1	FngBass2	2		H		Н		Н		Н		+		Н		H		Н		+			-
	35	PickBass	1		Ļ	Ford 2		Fred 1		0		0			1			MutePkBa	1		П		\Box			
	36 37	Fretless SlapBas1	1	Fretles2	2	Fretles3	2	Fretles4	2	SynFretl	2	Smooth	2		+		Н	ResoSlap	1		Н		H			
	38	SlapBas2	1				П				П				1						П		Ħ			
	39 40	SynBass1 SynBass2		SynBa1Dk ClkSynBa	2	ModulrBa	2	Seq Bass	2		Н		H		+			AcidBass DX Bass	2	FastResB X WireBa	1 2	TeknoBa	2			R
Strings	41	Violin	1	y.,a	Ť		Ť		Ĭ		Ħ				1			SlowVin	1		Ť		П			Ė
	42 43	Viola Cello	1		H		H		H		H		H		-[H		F		H		H			H
	44	Contrabs	1		H		Ħ				H				t		H		f		Ħ		Ħ			Ė
	45 46	Trem.Str Pizz.Str	1		П		П		П		П		П		1		П	SlowTrStr	1	Susp Str	2		П			
		Pizz.Str Harp	1		Н		H		Н		Н		H		1		Н		F		۲		H			ŀ
F 11	48	Timpani	1	01 0	Ļ		П				П				1		П	O-th :		Orah i i	Į	T 0 :	Ħ	Oh -l-O:	_	Ĺ
Ensemble	49 50	Strings1 Strings2		Slow Str 70s Str	1		H		Н		Н		H		+		Н	Orchestr LegatoSt	2	Orchstr2 Warm Str		TremOrch S.SlwStr	2	ChoirStr	2	S
	51	Syn.Str1	2	Syn Str4	2										#								П			
	52 53	Syn.Str2 ChoirAah	2		Н		Н		Н		Н		Н		+		Н	S.Choir	2	MelChoir	2		+			_
	54	VoiceOoh	1		H		Ħ				Н				1		Н	S.Onoii	Ĺ	WeiGrion	_		\forall			
	55 56	SynVoice Orch.Hit	1	OrchHit2	2		Н		Н		Н				4			SynVox2	2		H		\mathbf{H}			L
Brass	57	Trumpet		Trumpet2	1		H		Н		Н		Н		+		Н	Impact	_		Н		H			
	58	Trombone		Trmbone2	2		П				П				1		П						П			
	59 60	Tuba Mute.Trp	1	Tuba 2	1		H		Н		Н		Н		+		Н		┝		Н		+			-
	61	Fr.Horn	2	FrHorn2	2				П						1			FrHrSolo	1				П			Η
	62 63	BrasSect SynBras1	1 2	PolyBrss	2		H		Н		Н		H		+			BrssSec2 SynBras3	2	QuackBr	2		Н			Α
	64	SynBras2		Soft Brs	2										1				2	quunt	Ĺ		Ш			Α
Reed	65 66	SpmoSax Alto Sax	1		H		H		H		Π		H		Ţ			HyprAlto	2		Ħ		H		H	ĺ
	67	TnrSax 2	1		Ħ		Ħ		H		Н		۲		t			BrthTnSx	2		٢		\Box			H
	68 69	Bari.Sax Oboe	1 2		F		П		П		П		П		1		П		F		F		H			ĺ
		Eng.Horn	1		Н		H		Н		Н		Н		$^{+}$		Н		H		Н		+			-
	71	Bassoon	1												#								\Box			
Pipe	72 73	Clarinet Piccolo	1		Н		H		Н		Н		Н		+		Н		H		Н		Н		H	Н
	74	Flute	1												1		П						\Box			
	75 76	Recorder PanFlute	1		Н		Н		Н		Н		Н		+		Н		┝		Н		+		Н	H
	77	Bottle	2						П						1											
		Shakhchi Whistle	1		Н		H		Н		Н				+		Н		H		H		+			
	80	Ocarina	1								Н				1		Н				Ħ		Ħ			
Synth Lead	81 82	SquareLd	2	Square 2 Saw 2		Hollow PulseSaw		Mellow ThickSaw		SoloSine		Shmoog	2	LMSquare : HeavySyn :	2	DynaSaw	1	SineLead Dr. Lead	1		H		$^{++}$			W
	83	Saw.Lead CaliopLd	2	Odw 2		Pure Pad	2	THICKOAW	-	Big Lead	-	VeloLead	_	rieavy5yii .	+	Dynaoaw	Ė	Di. Leau	Ĺ		Н		H			
		Chiff Ld	2		H		Н		Н		Н				4		Н	Dietl and	2		H		Н			
	86	CharanLd Voice Ld	2		H		H		H		Н				+		Н	DistLead	2		H		H			H
	87	Fifth Ld	2	Big Five	2	F-10.7 :			П		П				1		П				П		П			
Synth Pad	88 89	Bass &Ld NewAgePd	2	Big&Low Fantasy2	2	Fat&Prky	2		Н		Н		H		+		Н		H		H		H			H
,	90	Warm Pad	2	ThickPad	2	Hom Pad	2	RotarStr	2	Soft Pad	2				1						П		П			
	91 92	PolySyPd ChoirPad		PolyPd80 Heaven2	2		H		Н		Н		H		+		Н		F		H		H			H
	93	BowedPad	2		П		Ħ				Ħ				1		Ħ				f		Ħ			Ė
	94 95	MetalPad Halo Pad	2	Tine Pad	2	Pan Pad	2		Н		Н		H		1		Н		F		H		H			ĺ
	96	SweepPad	2	PolarPad	2						H		٥		1			Converge	2	Shwimmer	2	Celstial	2			E
Synth Effects		Rain	2	HrmoRain	2	AfrenWnd	2		П		П		П		Ţ			ClaviPad	2		П		П			ĺ
		SoundTrk Crystal		Ancestrl SynMalet		Prologue SftCryst	2	RndGlock	2	LoudGlok	2	GlockChi	2	ClearBel :	2	XmasBell	2	VibeBell	2	DigiBell	2		H			С
	100	Atmosphr	2	WarmAtms		NylnHarp	2	Harp Vox		HollwRls					2						F		П			Ĺ
		Bright Goblins	2	GobSyn	2	50sSciFi	2		Н		Н		H		+		Н		F		H		H			
	103	Echoes	2	EchoBell	2	Echo Pan	2	EchoPad2	2	Big Pan	2			SynPiano :	2						П		Ħ			
Ethnic		Sci-Fi Sitar		Starz Sitar 2	2	DetSitar	2		H		H		H		-[H	Tambra	2		H		H			Ti
	106	Banjo	1	MuteBnjo	1	Social	Í								t			Rabab	2		۲		\Box			G
	107	Shamisen	1		F		Ħ		П		П				Ţ			T Koto	2		F		П			V
	108	Koto Kalimba	1		Н		H		Н		Н		H		+		Н	T. Koto	1		٢		H			K
	110	Bagpipe	2				П								1				F				П			
		Fiddle Shanai	1	Shanai2	1		H		Н		Н		H		+		Н	Pungi	1		H		H			Н
Percussive	113	TnklBell	2	- norrole	Ė		Ħ								1				٠.	Gender	2	Gamelan	2	S.Gamlan		R
	114	Agogo SteelDrm	2		H		H		H		H		μ		Ţ		H		F		H		HĪ		H	ĺ
	116	WoodBlok	1		Ħ		Ħ		H		Н		٥		t			Castanet	1		٢		\Box			H
	117	TaikoDrm	1	Pool T-	Ĺ		П		П		П				1			Gr.Cassa	1	Dool: T:			П			
		MelodTom Syn.Drum	1	Real Tom	2		H		Н		Н		H		+		Н	Mel Tom2 Ana Tom	1	Rock Tom ElecPerc	2		H			H
0	120	RevCymbl	1	0	ļ	01- 01	Ļ	0411			П				1		П				F		Ħ			l
Sound Effects		FretNoiz BrthNoiz	2	CuttngNz FI.KClik	1	Str Slap	1	CttngNz2	2		Н		H		+		Н				H		H			H
	123	Seashore	2	Rain	1	Thunder		Wind		Stream	2	Bubble	2		1		Ħ		Í		Ħ		Ħ			Ė
		Tweet Telphone	2	Dog Tel.Dial		Horse DoorSqek		Bird 2 DoorSlam	1	Scratch		WindChm	1	Scratch2 :	2		Н		F		H		H			H
				CarEngin		Car Stop	1	Car Pass		CarCrash						Jetplane	2	Starship	2	Burst	2		H			C
	126	Helicptr																Otarship								

Bank Select MSB=Bank Number LSB=000

Same as Bank 0

1	Instrument Group	Pgm #	Bank 0	EL	Bank 17	EL	Bank 18	EL	Bank 19	EL	Bank 24	EL	Bank 25	EL	Bank 26	EL	Bank 32	EL	Bank 33	EL	Bank 40	EL	Bank 126	EL	Bank 127
Part		1																				t			a.piano1
Part						Н		Н		Н		Н		Н		Н		Н		Н		+			a.piano2 a.piano3
Part		4	HnkyTonk					П			co-FLD	Ļ	Hardel D		M-II-ED4		ELD4K	Ļ				F	A-Piano4		e.piano1
1				-				Н		Н		2	Hardel.P	_	MelioEP1	2						t		1	e.piano3
1		<u> </u>				Н		П		П	Harpsi.2	2		\Box		П				Н		F		1	e.piano4 hnkytnk
1 Marches 1 Marches		9	Celesta	1				Н		Н												t	E-Piano2	2	e.organ1
1	Percussion					Н		Н		Н						H						\vdash			e.organ2 e.organ3
1		12	Vibes	1				П														t	A-Guitr2		e.organ4
				1	Balafon2	2		Н		Н	Log Drum	2		Н		Н		H		H		╀		2	pipeorg1 pipeorg2
1		15	TubulBel					П														t	E-Guitr2		pipeorg3
1	Organ				60sDrOr2	2	60sDrOr3	2		Н	CheezOrg	2		Н		Н	DrawOrg2	2	EvenBar	2	Organ Ba	1			acordion harpsi1
Part	Organ	18	PercOrgn	1		Ì	COGDICIO	Ì				Ĺ							Eventual	È	Organ Da	Ė	Slap-3	2	harpsi2
2 Marcha 2						Н		Н		Н		-		Н		Н	TrmOraEl	2		Н		╀	Slap-4		harpsi3 clavi1
2		21	ReedOrgn	1				П			Orgi lute	_					milorgin	_				t	Slap-6	2	clavi2
1						Н		Н						Н		Н						F			
Service Servic						Н		Н		Н		Н		Н		Н		Н		Н		$^{+}$		_	celesta2
2	Guitar					Н		Н		Н	VelGtHrm	2		Н						H	LequintG	1			synbras1 synbras2
2								Н								H	OteelOtz	Ė				t			synbras3
2						Н		Н		Н		H		Н		Н		H		H		₽		1	synbras4 synbass1
Service Control of Con				1				Н														t		1	synbass2
Sey			Dist.Gtr			Н		Н		Н		H		Н		Н		H		Н		╀			synbass3 synbass4
2	Bass					Н		Н		Н		Н		Н		H		Н		Н		t		_	newagepd
1								П		П												F			synharmo
Page Page				-		Н		Н		Н		Н		Н		Н		Н		Н		t	Strngs-3	2	choir pd bowed pd
20						П		П		П		F		H				F		F		F	Strngs-4	$\overline{}$	soundtrk
0 960000 1 1 1 1 1 1 1 1 1						H		H		H		Ħ		H		H		Ħ		H					syn warm
C 100. C 100. C C C C C C C C C	Parinac		SynBass2	2		1	MelloSB1	1	SmthBa 2	2												F	E-Organ3		synfunny
Company Comp	oungs	42	Viola			H		H		H		Ħ		H		H		Ħ		H			E-Organ5		rain
Company Comp		43	Cello					П		П										Г		F	E-Organ6		synoboe
Company Comp						H		H		H		H		H		H		H		H		H		2	synecho2 synsolo
1			Pizz.Str					П		П												L	E-Organ9		synrdorg
Company Comp						Н		Н		Н		Н		Н		Н		Н		Н		╁			synbell squareld
2 Sp. St. 1 2 2 2 3 4 4 4 4 4 4 4 4 4	Ensemble	49	Strings1					П		П	VeloStr	2				П						F	TP/TRB-1	1	strsect1
Second S				-		Н		Н		Н		Н		Н		Н		Н		Н		+		1	strsect2 strsect3
March Marc		52	Syn.Str2					П														I	TP/TRB-4	_	pizz.str
Fig. 6 Cot. No. 1 Cot. No. 2 Cot. No.						Н		Н		Н		Н		Н		Н	Ch.Aahs2	2		Н		+			violin 1 violin 2
Branch 1								П														I			cello 1
Second Processor	Brass	_				Н		Н		Н	BriteTrp	2	WarmTrp	2		Н		Н		Н		+			
60 Max Typ		58	Trombone	1				П														I	Sax-4		harp 1
El Fricon 2				1		Н		Н		Н		Н		Н		Н		Н		Н		╁		1	
March Marc		61	Fr.Horn					П														L	Brass-3		guitar 2
March Marc						Н		Н		Н		H		Н		Н		H		Н		+			elecgtr1 elecgtr2
60 No Sear 1					VelBras2	2		Ш																	sitar
67 TriSex 2 1	Reed			1		Н		Н		Н		Н		Н		Н		Н		Н		+		Н	a.bass 1 a.bass 2
20 2		67	TnrSax 2					П														İ	No Sound		e.bass 1
70						Н		Н		Н		Н		Н		Н		Н		Н		╀		Н	e.bass 2 slapbas1
Page 72 Calment 1		70	Eng.Horn	1				Ħ														İ	No Sound		slapbas2
Page						Н		Н		Н		Н		Н		Н		Н		Н		╀			fretles1 fretles2
Fig. Recorder 1	Pipe	73	Piccolo	1				П														I	No Sound		flute1
ParFilled 1				1		Н		Н		Н		Н		Н		Н		Н		Н		+		Н	flute2 piccolo1
78 Shabshoth 2		76	PanFlute					П														I	No Sound		piccolo2
Whete						Н		Н		Н		Н		Н		Н		Н		Н		+			recorder panpipes
Symbol Bi		79	Whistle	1				П														L	No Sound		sax1
Second S	Synth Lead					Н		Н		Н		Н		Н		Н		Н		Н		+		Н	
Second Colored Color			Saw.Lead	2				П														I			sax4
Standard Company Com						Н		Н		Н		Н		Н		Н		Н		Н		╀			clarint1 clarint2
Symbol Base Sumapril Base B			CharanLd					П														I			oboe
Synth Pad Sas & Li						Н		Н		Н		Н		Н		Н		Н		Н		╀		Н	eng.hom bassoon
90 Warm Pad 2 90 Warm Pad 2 90 Warm Pad 2 90 90 90 90 90 90 90	0	88	Bass &Ld	2				Ħ														Ĺ	No Sound	Ħ	harmnica
91 Poly-SyP d 2	oyntn Pad					Н		H		H		H		H		H		H		Н		+		Н	trumpet1 trumpet2
93 BowedPad 2		91	PolySyPd					П				I						I					No Sound	П	trmbone1
MetaPland 2						Н		Н		Н		Н		Н		Н		Н		Н		+			trmbone2 fr.hom1
Synth Effects Synth Effect		94	MetalPad	2				П														L	No Sound		fr.hom2
Synth Effects						Н		Н		Н		Н		Н		H		Н		Н		+			tuba brssect1
Percussive Per	Synth Effects		Rain	2				П														F			brssect2
100 Almosphr 2					AirBells	2	BellHarp	2	Gamelmba	2		Н		Н		Н		Н		Н		+		Н	
102 Gobins 2			Atmosphr				·	П														I			symallet
103 Echoes 2						Н		Н		Н		Н		Н		Н		Н		Н		╀		Н	
Ethnic 105 Star 1		103	Echoes	2				Ħ				Í						Í				İ	No Sound	Ħ	tubulbel
106 Banjo 1	Ethnic					Н		H		H		H		H		H		H		H		\vdash		Н	xylophen marimba
108 Koto		106	Banjo	1				Ħ			Oud	2						Í					No Sound	Ħ	koto
109 Kallmba 1						H		Н		H		H		H		H		H		H		H		Н	sho shakhchi
111 Fidde		109																				t			whistle1
112 Shanal						Н		H		H		H		H				H		H		H		Н	whistle2 bottle
114 Appg 2		112	Shanai	1				П															No Sound		breath
115 Steal/Im 2	Percussive					H		П		H		f		H				f		H		F		Ц	timpani melotom
117 Taik0/m 1		115	SteelDrm	2				Ħ				Ħ						Ħ					No Sound	H	deepsnar
118 MelodTom 2						H		H		H		F		H				F		H		F		Н	e.perc1 e.perc2
120 RevCymbu 1 No Sound Castana No Sound Castana No Sound Castana		118	MelodTom	2		H		Ħ				H						H					No Sound	Ħ	taiko
Sound Effects 121 FerNoiz 2						П		П		П		F		1		П		F		П		F		Д	taikorim cymbal
122 BarthNiz 2	Sound Effects	121	FretNoiz	2		Ħ		H		H		Ħ		Н				Ħ		H			No Sound	H	castanet
124 Tweet 2 No Sound telphone 125 Telphone 1 No Sound bird 126 Helicptr 1 No Sound jam		122	BrthNoiz			П		П		П		F		1				F		П			No Sound	П	triangle
125 Telphone 1 No Sound bird 126 Helicpit 1 No Sound jam		124				H		H		H		H		H				H		Н				Н	orchehit telphone
		125	Telphone			П		П		П		Г		1				Г		Г			No Sound	П	bird
127 Applause 1 No Sound efctwal			Helicptr Applause	1		Н		H		H		H		H				H		H		H	No Sound No Sound	Н	jam efctwatr efctjngl

No Sound

Miles				Pr	eset Perfo	orm	ance						User Per	orr	nance						Addit	ion	s		
Problem Prob			63(3F)		63(3F)		63(3F)		63(3F)		63(3F)		63(3F)		63(3F)		63(3F)		63(3F)		63(3F)				
Figure Ca Voceshame Ca Vocesha	LSB-:				1													ш			9				
D	DCM#			Ca		Ca		Ca		Ca		Ca		Ca		Ca		Ca		Ca		Ca		Ca	
2 50 SAYAM A 50 SAYAM B 50 Nimes C 50 SAYAM B 50 Nimes C 50 SAYAM B 50 Nimes C 50 SAYAM B 50 SAYAM B 50 SAYAM B 50 SAYAM B 50 SAYAM B 50 SAYAM B 50 SAYAM B 50 SAYAM B 50 SAYAM B 50 SAYAM B 50 SAYAM B 50 SAYAM B 50 SAYAM B 50 SAYAM B SAYAM				Ca	Voiceivanie	Ca	VOICEIVAITIE	Ca	Voiceivanie			Ca	Voiceivairie	Ca	Voiceivanie	Ca	Voiceivairie					Ca	Voiceivanie	Ca	Voiceivairie
Second Color				Sq							PanSeq A	Sq	PanSeq B					Pf	Radio A						
Secretary Secr				Sq		Sq	Kirmes C					_	140 L			-					ALLE D				
Section Sect				Sq	Clasic B	H								Sa	Suprrp C	Sa	Suprrp D								
				Sq	RytFld B							-	Cupinp B	-	оцр.пр о	-	очрир в								
S. Strobe A. S. Strobe B. S. Strobe B. S. Plyse A. S. Plyse B. O. P. PlescOrg A. O. PlescOrg B. O. PlescOrg A. O. S. PlescOrg B. O. S. PlescOrg A. O. D. Strobe B. O. O. O. D. Strobe B. O. O. D. Strobe B. O. O. D. Strobe B. O. O. D. Strobe B. O. O. D. Strobe B. O. O. D. Strobe B. O. O. D. Strobe											uidgy2 A														
10 St. Fly A.														Sq	HardOn C	Sq	HardOn D					Or	PeeEss C	Or	PeeEss D
11 St				Sq	SHODE B	\vdash		1																	
13 S. Rezine A Sc Rezine B Sc Rezine C Sc Rezine D Sc Lenza A Sc France A Sc Fra				Sq	Vivldi B																				
14 Sc Todd A Sc Todd B Sc Thin C Sc Thin																				Or	Hamond B	Or	Hamond C		
16 Sc. Thick A						Sc	Rezine C	Sc	Rezine D							-				C+	Charua P	C+	Charua C	C+	Chorus D
16 Sc. Thin A Sc. Thin B Sc. Thin D Sc. Pulses A Sc. College B Sc.				J.C	10dd B															Gi	Cilorus B	Gi	Chorus C	Gi	Chords D
18 Sc Unvrise A				Sc	Thin B	Sc	Thin C	Sc	Thin D											Ba	Joda-C B				
19 Sc Crispy A Sc Crispy B Sq Sprikin A Sq Sprikin B Sq Sprikin B Sq Sprikin B Sq Sprikin B Sq Sprikin B Sq Sprikin B Sq Sprikin B Sq Sq Sq Sq Sq Sq Sq				Sc	CutGls B			_				Co	Ethno B	Co	Ethno C	Co	Ethno D					Ba	sPunch C		
20 SC FatAre A				80	Crieny B							Sa	SprkPn B			-				ва	Marins B				
21 SC Brassy A				00	Опару В									Fx	SnCrny C	Fx	SnCrny D			Ba	Yeah B	Ba	Yeah C		
23 SC PishkOpEA SC PishkOpEA SC PishkOpEA SC PishkOpEA SC Standard Sc												Fx	SwepRn B				•	Ва							
24 Sc							B. 11 B.		D. 11 D.D							_				Ba	303Vlo B				
25 S. Nale Q A S. Nale Q B S. Nale Q C S. S. Source A S. Source B S.								Sc	PISMoD6D							Sc	TranCS D			Ra	halshs R	Ra	halshs C		
26 Sc TexSas A Sc TexSas C TexSas C												Sc	Source B							Ба	Delalia D	Da	Delalia C		
28 Sc DatApp A Sc DatApp B Sc DatApp B Sc DatApp B Sc Datapp B Sc Da	26	Sc Tex	xSas A	Sc	TexSas B	Sc		Sc	TexSas D	Sc	ary A	Sc	ary B					St	Phaser A						
29 Sc Olgitz A Sc Olgitz A Sc Olgyey C Sc Odysey D Sc Odysey C Odysey C Odysey				Sc												_									
Sc Odysey A Sc Odysey B Sc Odysey C Sc Odysey D Pd ResoCt A Sc Glassy B Sc Glassy C St Arco A St Arco C St Arco D St Sc Glassy B Sc Glassy C Sc Glassy C Sc Glassy B Sc Glassy C Sc Stab A Sc Stab B Sc Glassy C Sc Stab A Sc Stab B Sc Glassy C Sc Glassy C Sc Stab A Sc Stab B Sc Glassy C Sc Stab A Sc Stab B Sc Glassy C Sc Stab A Sc Stab B Sc Glassy C Sc Stab A Sc Stab B Sc Glassy C Sc Stab A Sc Stab B Sc Glassy C Sc Stab A Sc Stab B Sc Glassy C Sc Stab A Sc Stab B Sc Stab B Sc Glassy C Sc Stab A Sc Stab B Sc Stab B Sc Stab B Sc Stab B Sc Stab B Sc Stab B Sc Stab B Sc Stab B Sc Stab B Sc Stab B Sc Stab B Sc Stab B Sc Stab B Sc Stab B Sc Stab B Sc								-								-									
St Coves A St Coves A St St St St St St St						Sc	Odvsev C	Sc	Odvsev D			30	Alay2 B											St	Arco D
34 Fx	31	Sc Do	oves A							Sc	Glassy A							Br	Behind A	Br	Behind B				
34 Fx Indies B Fx CSpace B Fx CSpace C Sc Stab A Sc Stab B Br Trmpts A Fx Trmpts A Br Trmpts B Br Trmpts B Br Trmpts C Br Sectin D Br Sectin B Br Sectin								Fx	Airy D			Sc	SynchrdB	Sc	SynchrdC	Sc	SynchrdD					Br	OldTnr C		
SEC SEC						FX	Pardse C	-				SC	C-HOOK B												
17 18 18 18 19 19 19 19 19						Fx	CSpace C					Sc	Stab B									Br	Trmpts C		
18 Fx Morning B Fx CSphre A Fx CSphre B CSphre B Fx CSphre B CS				Fx	Eerie B		•																		
19 Fx CSphre A Fx CSphre B Fx CSphre B Fx MagCPd A Fx MagCPd B Fx MagCPd B Fx MagCPd B Fx MagCPd C Fx MagCPd C Fx MagCPd C Fx MagCPd C Fx MagCPd C Fx MagCPd C Fx MagCPd C Fx MagCPd C Fx MagCPd C Fx MagCPd C Fx MagCPd C Fx Fx Fx Fx Fx Fx Fx				F.,	Managa									1.4	4Deles C									Br	Soft D
40 Fx MagcPd A Fx MagcPd B MagcPd B						Fx	CSphre C					La	4Poles B	La	4Poles C	_						La	TOCISE C		
42 Fx FlwrArpA								Fx	MagcPd D			Ld	ZapLed B												
1				Fx	Tintpa B									Ld	TheHok C					Ld	Babyln B	Ld	Babyln C		
Fx Orient A Fx Orient B Ld MegaHk A Ld MegaHk B Ld MegaHk B Ld MegaHk C Ld MegaHk D Ld AcidLd A Ld AcidLd B				F.,	K Cara D	F.,	V C C							1.4	F C	-				1.4	D-4Chl. D	1.4	D-+Chl. C	1.4	DetChi- D
45 Fx Omnivr A Fx Omnivr C Fx Om						FX	n.Scpe C				MegaHk A					Ld	MegaHk D					Ld	DSIONK C	La	DSIONK D
46 Fx Whelez A Fx Whelez A Fx Whelez C Ld Marion A Ld Marion C Ld Marion C Ld MogLed A Rapind B	45	x On			Omnivr B		Omnivr C	Fx	Omnivr D		Mondo A		Mondo B				.,		BabyLd A		BabyLd B	Ld	BabyLd C		
48 Ba Basin 2 A Ba Basin 2 B Lid PureSn A Lid PureSn B Lid CryBby A Lid CryBby B				Fx	Whelez B		Whelez C				Marion A							Ld	MogLed A	Ld	MogLed B				
Ag Ba Super A Ba Super B Ba Unison B Ba Unison B Ba Unison C Ud Empha A Ba Unison B Ba Unison B Ba Unison B Ba Unison B Ba Unison B Ba Unison B Ba Unison B Ba Unison B Ba Unison B Ba Unison B Ba Unison B Ba Unison B Ba Unison B Ba Unison B Ba Unison B Ba Unison B Ba Unison B Ba Erahns A Ba Fashns B Ud IntYce A Ud IntYce B Ud Us Ud Us Ud Us Ud Ud				Ba	Bacin2 B									Ld	Semini C				Cn/Rby A						
Society Figure																									
52 8a 80sSymBA Ba 80sSymBB Ba 80sSymBB Ba 80sSymBB Ba 80sSymBB Ba Relard A Ba Pd ChoSwp A Pd ChoSwp B Ba Pd Synagy A Pd Synagy B Ba Swifre A Ba ssWire B Pd Synagy A Pd Synagy B <td>50 I</td> <td>3a Un</td> <td>nison A</td> <td>Ba</td> <td>Unison B</td> <td>Ва</td> <td>Unison C</td> <td></td> <td></td> <td>Ld</td> <td>Empha A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Ld</td> <td>TheLog A</td> <td>Ld</td> <td>TheLog B</td> <td></td> <td></td> <td></td> <td></td>	50 I	3a Un	nison A	Ba	Unison B	Ва	Unison C			Ld	Empha A							Ld	TheLog A	Ld	TheLog B				
63 Ba Pulsbs A Ba Pulsbs B Ba synagy B Pd Synag							00.0 50	_	00.0 55			Ba	Fashns B									Ld	InYFce C		
64 Ba SawBas A Ba SawBas B Ba Wound A Pd Vangls A Pd Vangls B B 55 Ba Fsh303 A Pd ClubUK A Pd ClubUK B Pd ClubUK D Pd						ва	ชบรริynBC	ва	8USSynBD			B.	ee\Miro P												
Finding Page Find												Dd	22AAIIG D						Vangls A						
Fig. Fig.	55 I	3a Fsl	sh303 A							Ba	Fridge A							Pd	ClubUK A	Pd	ClubUK B	Pd	ClubUK C	Pd	ClubUK D
58 Ba Mogue A Ba Mogue B Ba Saw 2 A Pd MayTrk A Pd MayTrk B Pd MonPad B												Ba	ssSine B									F .	Funn II O		
59 Ba LeeDa A Ba LeeDa Ba LeeDa Ba LeeDa Pd MonPad Neula Neula Neula Neula Neula Neula Neula Neula Neula Neula <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Pd</td><td>Expnar C</td><td></td><td></td></t<>																						Pd	Expnar C		
60 Ba Howler A Ba Howler B Ba Howler C Ba Fuzlne A Pd Nebula A Pd Nebula B Pd Nebul						Ва	LeeDa C															Pd	MonPad C	Pd	MonPad D
62 Ba Sub A Ba Sub B Ba 303We A Pd Dawn B Ba 303We A Pd Satrn5 B Ba Howtzr A Pd Satrn5 B	60 I	3a Ho	owler A	Ba	Howler B	Ba	Howler C			Ba	Fuzlne A								Nebula A	Pd	Nebula B	Pd	Nebula C		
63 Ld Wasp A Ld Wasp B Ba Howtzr A Pd Satrn5 A Pd Satrn5 B						Ba	KickBs C					Ba	listic B									Pd	RelAnl C		
TOT TEAT E TO A TEAT E TO BE TO THE TOTAL OF				Ld	E-no B					Ba	Polrze A	Ва	Polrze B					Fx	KeslRn A	Fx	KeslRn B	Fx	KeslRn C	Fx	KeslRn D

The voice numbers 1 through 128 categorized in "Preset Performance" correspond to the voices used to configure the Preset Performances 1 through 128, respectively. The voice numbers 1 through 128 categorized in "User Performance" correspond to the voices used to configure the User Performances 1 through 128, respectively. The voice numbers 1 through 128 categorized in "Additions" are for your own creativity to expand your musical world.

No Sound

			Pr	eset Perfe	orm	ance						User Perf	orr	nance						Addit	ion	s		\neg
MSB-	->	63(3F)		63(3F)		63(3F)		63(3F)		63(3F)		63(3F)		63(3F)		63(3F)		63(3F)		63(3F)		63(3F)		63(3F)
LSB-		0		1		2		3		4		5		6		7		8		9		10(0A)		11(0B)
		Pre00		Pre01		Pre02		Pre03		Pre04		Pre05		Pre06		Pre07		Pre08		Pre09		Pre10		Pre11
PGM#		VoiceName	Ca	VoiceName	Ca	VoiceName	Ca	VoiceName	Ca		Ca		Ca	VoiceName	Ca	VoiceName	Ca	VoiceName	Ca	VoiceName	Ca	VoiceName	Ca	VoiceName
	Ld	Fifths A	Ld	Fifths B	ļ.,	= "			Pf	70'sClvA	Pf						Fx	Goldlx A	Fx	Goldlx B	Fx	Goldlx C		
	Ld Ld	TalkBx A Micrdt A	Ld	TalkBx B	Ld	TalkBx C			Pf Pf	Woltz2 A	Pf	Woltz2 B DynaRseB	Pf	DynaRseC			Fx Fx	Washot A Chilin A	Fx	Washot B Chilin B	Fx	Washot C	Fx	Washot D
	Ld	OldMni A	Ld	OldMni B	\vdash				Pf	DynaRseA Major7 A	Pf		Pf	Major7 C	Pf	Major7 D	Fx	Scvnge A	FX	CIIIIII B	=			
	Ld	NuSync A	Ld	NuSync B	\blacksquare				Pf	SwetFn A	Pf		Pf	SwetFn C	 ` ` 	Wajori D	Fx	Dr Hoo A						
	Ld	Clangr A	Ld	Clangr B					Ср	XyldyneA	Ср						Fx	D-Laid A	Fx	D-Laid B				
	Ld	OldRso A	Ld	OldRso B					Or	ganMtl A	Or	ganMtl B	Or	ganMtl C	Or	ganMtl D	Fx	Wisppp A	Fx	Wisppp B				
	Ld	Sync A							Or	YC45D A	Or						Fx	Comdwn A	Fx	Comdwn B				
	Ld	Croma A	Ld	Croma B	1.4	Delen II- C	1.4	Delet In D	Or	Door A	Or	Door B		D C	0-	and Day D	Fx	SpceDstA	Fx	SpceDstB	Fx	SpceDstC		
	Ld Ld	Bg'mUp A Human A	Ld Ld	Bg'mUp B Human B	La	Bg'mUp C	La	Bg'mUp D	Or Or	ganPrc A ganRve A	Or Or	ganPrc B ganRve B	Or Or	ganPrc C ganRve C	Or	ganPrc D	Fx Fx	Wowlng A Chiled A	Fx	Chiled B				
	Ld	BigBob A	Ld						Or	Celuli A	Or		01	garritve C			Fx	Touch A	Fx	Touch B	Fx	Touch C	Fx	Touch D
	Gt	Firstr A	Gt	Firstr B					Gt	Tele A	Gt						Fx	DynaHt A	Fx	DynaHt B	Fx	DynaHt C		
	Gt	Sevila A	Gt						Gt	EzaGza A	Gt						Fx	NoseCt A						
	Pf	CP80 A							Br	Obie A							Fx	Elctro A	Fx	Elctro B	Fx	Elctro C	Fx	Elctro D
	Pf	Woltz1 A	Pf	Woltz1 B					Br	Cross A	Br	Cross B	Br	Cross C	Br	Cross D	Fx	Winter A	F×	Winter B	Fx	Winter C	Fx	Winter D
	Pf	Tina A	Pf	Tina B					Br	assTek A	Br	assTek B	D-				Fx	Magicl A	Fx	Magicl B	Fx	Magicl C	Fx	Magicl D
	Pf Pf	DX-Cls A AmbiEp A	Pf	AmbiEp B	\vdash				Br Br	asHose A asFase A	Br Br	asHose B asFase B	Br	asHose C			Fx Fx	JaWble A CSubSb A	Fx	JaWble B CSubSb B	-			
	Pf	HipRds A	Pf	HipRds B	Pf	HipRds C			St	Swpstr A	St	Swpstr B	St	Swpstr C			Ét	Shaku A	Et	Shaku B	Et	Shaku C		
	Pf	Hard A	Pf	Hard B					St	Vintge A			-				Et	Koto A	Et	Koto B				
86	Ср	BelEnd A	Ср	BelEnd B	Ср	BelEnd C	Ср	BelEnd D	St	StrngpdA	St	StrngpdB					Et	Bali A	Et	Bali B				
	Or	Compct A	Or						St	Bartok A	St						Et	Ravi A						
	Or	EnsmbleA		EnsmbleB					St	Vienna A	St	Vienna B	_				Se	Yavin A	Se	Yavin B	Se	Yavin C		
	Or	Gospel A	Or	Gospel B Drwbrs B	Or	Drwbrs C	0-	Drwbrs D	St	FltaFe A	-	MIII MAG D	Pd	MlkyWy C			Se	SwptWy A	Se	SwptWy B				
	Or Or	Drwbrs A MissU A	Or	MissU B	Or	DIWDISC	Or	DIWDIS D	Pd Pd		Pd Pd		Pa	IVIIKYVVY C			Se Se	Fitzcr A HrpGls A	Se Se	Fitzcr B HrpGls B	Se	HrpGls C	80	HrpGls D
	Or	GlsOrgnA	Or		Or	GlsOrgnC			Pd	Solini A	Pd	Solinl B	Pd	Solinl C	\vdash		Se	Inosns A	Se	Inosns B	Je	Tilpois C	Se	TilpGis D
	Pd	AnglSt A	Pd	AnglSt B	Pd				Pd		Pd						Se	Monaco A	Se	Monaco B	Se	Monaco C		
	Pd	IceFld A	Pd	IceFld B	Pd	IceFld C			Pd	Swell A	Pd	Swell B					Se	Isoltr A	Se	Isoltr B				
	Pd	Memory A		Memory B	Pd				Pd		Pd	VS-Pad B					Se	E-Drpz A						
	Pd	SckWve A	Pd	SckWve B	Pd				Pd	Amber A							Se	DeadBl A	Se	DeadBl B				
	Pd	Sprite A	Pd	Sprite B	Pd	Sprite C			Pd Pd	Aurora A	Pd		Pd				Se	DblWtr A	Se	DblWtr B				
	Pd Pd	Trance A White A	Pd Pd	Trance B White B					Pd	Crystl A Haze A	Pd Pd		Pd	Crystl C			Se Se	Shinng A Jungle A	Se	Shinng B Jungle B	Se	Jungle C	Se	Jungle D
	Pd	AirCls A	Pd	AirCls B					Pd		Pd						Se	DevICt A	Se	DevICt B	Se	DevICt C	Je	Juligie D
	Pd	Carpet A	Pd	Carpet B	Pd	Carpet C			Fx	Tribal A	Fx	Tribal B	Fx	Tribal C			Se	Whsprs A	Se	Whsprs B	Se	Whsprs C	Se	Whsprs D
	St	Detrot A	St	Detrot B					Fx	Plnktn A							Se	ColrMe A	Se	ColrMe B				
	St	Baroqe A	St	Baroqe B	St	Baroqe C			Fx		Fx	Ryza B	Fx	Ryza C			Sc	Loaded A	Sc	Loaded B				
	St	Octava A	St	Octava B	St				Fx		Fx		Fx	Gaa'99 C	Fx	Gaa'99 D	Sc	ATenth A	Sc	ATenth B				
	St	Jupitr A	St	Jupitr B Strwmn B	St	Jupitr C	St	Jupitr D	Fx	Lights A Morf A	Fx	Lights B Morf B	Fx	Lights C Morf C			Sc	Ugly A FMInte A	Sc	Ugly B FMInte B	_			
	St St	Strwmn A Strynx A	St	Strynx B	St	Strynx C			Fx Fx	QSpacs A	Fx		Fx	QSpacs C	Fx	QSpacs D	Sc Sc	BigDgi A	Sc Sc	BigDgi B	Sc	BigDgi C		
108		Jump A	Br	Jump B	100	Julyin U			Fx	WatrTy A	Fx		Fx	WatrTy C	^	G Space D	Sc	Monkee A	Sc	Monkee B		SigDgi O		
109		Bronze A	Br	Bronze B					Fx	Galaxy A	Fx						Sc	Arpstc A	Sc	Arpstc B	Sc	Arpstc C	Sc	Arpstc D
110	Br	Xpandr A	Br	Xpandr B					Fx	Triger A							Sc	Feelme A	Sc	Feelme B	Sc	Feelme C	Sc	Feelme D
111		HansUp A	Br	HansUp B		HansUp C		HansUp D	Fx	Resive A	Fx	Resive B					Sc	C-Quor A						
112		Prophy A	Br	Prophy B	Br	Prophy C	Br	Prophy D	Et C-	Santur A	Et	Santur B	Et	Santur C			Sc	Strinx A						
113 114	Br Se	Matrix A Union A	Br	Matrix B	Br	Matrix C	Br	Matrix D	Se Se	Plasma A Lunar A	Se Se	Plasma B Lunar B	Se	Lunar C	Se	Lunar D	Sc Vo	Busy A You A	Vo	You B				
	Se	Vulcan A	Se	Vulcan B					Se		Se	ArpDrpsB	36	Lunai C	Se	Luliai D	Co	Split A	Co	Split B	Со	Split C	Со	Split D
	Se	WStatn A	Se	WStatn B	Se	WStatn C			Se		Se	HybriFIB	Se	HybriFIC			Co	Str&Pn A	Co	Str&Pn B	Co	Str&Pn C	55	Spiit D
117	Se	Ghost A	Se	Ghost B	Se		Se	Ghost D	Se	BetPhl A	Se		Ľ				Со	Fairy A	Co	Fairy B				
118	Vo	Choir A	Vo	Choir B					Se	Organx A	Se	Organx B	Se	Organx C			Со	EP&StrnA	Со	EP&StrnB				
	Vo	Fragle A	Vo	Fragle B					Se	Varint A	Se	Varint B					Co	Loop A	Co	Loop B	Со	Loop C	Со	Loop D
	Co	Haendl A	Co	Haendl B	Co		C-	Weblibe D	Se	SkyDmn A	Se	SkyDmn B	1/-	D C	1/-	D D	Co	Chldrn A	Co	Chldrn B	Со	Chldrn C		
	Co Co	WshUha A Transt A	Co	WshUha B Transt B	Co	WshUha C Transt C	Co	WshUha D Transt D	Vo Vo	ooDooo A xoMono A	Vo Vo	ooDooo B xoMono B	Vo Vo	ooDooo C xoMono C	Vo	ooDooo D xoMono D	Co Co	SynE.P A New808 A	Co	SynE.P B New808 B	Со	New808 C	Co	New808 D
	Dr	KtB900 A	Dr	KtB900 B	Dr	KtB900 C	Dr	KtB900 D	Vo	Tehilm A	Vo	Tehilm B	VU	AUMUNU C	100	YOUNDING D	Sq	uirt A	Sq	uirt B	-00	146W000 C	00	TACWOOD D
	Dr	Kit9o9 A	Dr	Kit9o9 B	Dr	Kit9o9 C	Dr	Kit9o9 D	Co		Co		Co	EthnoSpC	Со	EthnoSpD	Sq	Einstn A	Sq	Einstn B	Sq	Einstn C	Sq	Einstn D
	Dr	Kit8o8 A	Dr	Kit8o8 B	Dr	Kit8o8 C	Dr	Kit8o8 D	Co		Со	IdHitz B	Co		Co	ldHitz D	Sq	Estury A	Sq	Estury B				
	Dr	HipHop A	Dr	HipHop B	Dr	HipHop C	Dr	HipHop D	Со	ShmStr A	Со		Со		Со	ShmStr D	Sq	Pulshn A	Sq	Pulshn B				
	Dr	Jungly A	Dr	Jungly B	Dr	Jungly C	Dr	Jungly D	Co	DistKk A	Co	DistKk B	Co	DistKk C		- 16.5	Dr	HipSet A	Dr	HipSet B	Dr	HipSet C	Dr	HipSet D
128	Dr	Elctrc A	Dr	Elctrc B	Dr	Elctrc C			Co	EuroKt A	Co	EuroKt B	Co	EuroKt C	Co	EuroKt D	Dr	LfiAna A	Dr	LfiAna B				

Voices for Performances(Bank PRE 12)

Drums Assign List for PRE12

	D	rum
MSB		63(3F)
LSB		12(0C)
		Pre12
PGM#	Ca	VoiceName
1	Dr	TechKt A
2	Dr	ElctrKtA
3	Dr	JnglKt A
4	Dr	HpHpKt A
5	Dr	8o8Kit A
6	Dr	9o9Kit A

Bank	MSB#		63(3F)	63(3F)	63(3F)	63(3F)	63(3F)	63(3F)
	LSB#		12(0C)	12(0C)	12(0C)	12(0C)	12(0C)	12(0C)
	ram #		1	2	3	4	5	6
Note#	Note	Capital	TechKt A	ElctrKtA	JnglKt A	HpHpKt A	8o8Kit A	9o9Kit A
		-				+ -		
13 14	C# -						+	
15		1 Hi Q						
16	E -							
17	F -							
18		Scratch Pull						
19		Finger Snap						
20		1 Click Noise						
21		Metronome Click						
22	A# -							
23	В -							
24		Seq Click H						
25		Brush Tap						
26		Brush Swirl L						
27		Brush Slap						
28		Brush Swirl H						
29		Snare Roll						
30		Castanet						
31		Snare L			SD Jungle2	SD HipHop3	T8 SN1	T9 SN1
					3D Juliglez	эр пірпорэ	TO SINT	19 3111
32		Sticks Bass Drum L			BD Jungle2	BD Ana	BD Ana	BD Ana
33 34		Open Rim Shot			SD Jungle2		DU Alia	DD Alla
		Bass Drum M			BD Jungle3	SD HipHop3	T8 Kik2	BD Junglo 4
35 36		Bass Drum M Bass Drum H	BD Jungle1	T8 Kik2		BD HipHop2 BD HipHop1	T8 Kik3	BD Jungle4 T9 Kik1
37		Side Stick			BD Jungle2			T9 Rim
		Side Stick	BD Jungle2 T8 Kik2	T8 Kik2	T8 SN3	SD Jungle4 SD Elect3	T8 Rim	
38		Hand Clap		T8 Kik3	SD Jungle2	SD Elects	T8 SN3	T9 SN4
39 40		I Snare H	BD Jungle5	T8 SN1	SD Jungle3	SD HinHand	TO CNO	TO CNIA
			BD HipHop1	T8 SN3	3D Jurigle3	SD HipHop3	T8 SN3	T9 SN4
41 42		1 Floor Tom L 1 Hi-Hat Closed	BD HipHop2	T8 SN4	UU 2CI	HH 3CI	T8 Tom	T9 Tom HI2
			SD Jungle1	T8 SN5	HH 2CL	HH 2CL	T8 HH CL1	T9 HH CL1
43		1 Floor Tom H	SD Jungle2	T8 Conga HI1	1111001	1111001	T8 Tom	T9 Tom HI2
44		Hi-Hat Pedal	SD Jungle3	T8 Cowbell	HH 2CL	HH 2CL	T8 HH CL2	T9 HH CL2
45		1 Low Tom	SD Jungle4	T8 Conga HI1	LULOOD	LULOOD	T8 Tom	T9 Tom HI2
46		Hi-Hat Open	SD HipHop1	T8 Marracas	HH 2OP	HH 2OP	T8 HH OP1	T9 HH OP2
47		1 Mid Tom L	SD HipHop2	T8 Conga HI1			T8 Tom	T9 Tom HI2
48		2 Mid Tom H	SD HipHop3	T8 Conga HI1			T8 Tom	T9 Tom HI2
49		2 Crash Cymbal 1	SD Elect1	T8 Rim			To T	T0 T 1110
50		2 High Tom	SD Elect2	T8 CLAVE			T8 Tom	T9 Tom HI2
51		Ride Cymbal 1	SD Elect3	T8 CLAP	HH 4CL	HH 4CL		
52		Chinese Cymbal	SD Elect4	T0 T	1111 401	1111 401		
53		Ride Cymbal Cup		T8 Tom	HH 4CL	HH 4CL		
54		2 Tambourine	78 SN	T8 HH CL1	PC Tamb2	PC Tamb2		
55		Splash Cymbal	HH 1CL	T8 Tom				
56		2 Cowbell	HH 2CL	T8 HH CL2				
57		2 Crash Cymbal 2	HH 2OP	T8 Tom				
58		2 Vibraslap	HH 3CL	T8 HH OP1	1111 401	1111 401		
59		Ride Cymbal 2	78 HH Op	T8 Tom	HH 4CL	HH 4CL		
60		Bongo H	HH 4CL	T8 Cymbal				
61		Bongo L	HH 4OP					
62		Conga H Mute	PC Snap	T0 161 4				
63		Conga H Open	PC Tamb2	T9 Kik1				
64		Conga L	BD Jungle4	T9 Kik3n				
65		Timbale H	BD Ana	BD Jungle4				
66		3 Timbale L	Hit 1	T9 HH OP2				
67	G 3	Agogo H	Hit 1	T9 SN1				
68		Agogo L	Hit 1	T9 SN2				
69		3 Cabasa	Hit 2	T9 SN1				
70		Maracas	Hit 2	T9 SN3				
71		Samba Whistle H		T9 SN1				
72		Samba Whistle L	Hit Brass	T9 SN4				
73		4 Guiro Short	SCR 1	T9 Rim				
74		4 Guiro Long	SCR 1	T9 SN4				
75		1 Claves	SCR 1	T9 CLAP1				
76		Wood Block H	SCR 2	T9 SN4				
77		Wood Block L	SCR 2	T9 Tom HI2				
78		1 Cuica Mute	SCR 2	T9 HH CL1				
79	G 4	1 Cuica Open	SCR 3	T9 Tom HI2				
80	G# 4	1 Triangle Mute	SCR 3	T9 HH CL2				
81		1 Triangle Open	SCR 3	T9 Tom HI2				
82		1 Shaker	SCR 4	T9 HH OP2				
83		Jingle Bell	SCR 4	T9 Tom HI2				
84		Bell Tree	SCR 4	T9 Crash1				
85		Bell Tree	SCR 6	T9 Ride1				_
86		Bell Tree	SCR 6	T9 Crash1				
87		Bell Tree	SCR 6	T8 Kik2				
88		Bell Tree	SCR 6	78 SN				
89		Bell Tree	SCR 7	T8 SN3				
90		Bell Tree	SCR 7	78 HH CL				
91		Bell Tree	SCR 7	78 Cowbell				
92		Bell Tree	SCR 7	78 Marracas				
93		Bell Tree	Hit Brass	78 Tamb				
94		Bell Tree	Hit Brass	78 HH Op				
95		5 Bell Tree	Hit Brass	78 Guiro				
96	C 6	Bell Tree	Hit Brass	78 Metal				

= Same as Capital

Bank Select MSB=Bank Number, LSB=000

Bank				127	127	127	127	127	127	127	127	127	126	126
Program	n#			1	2	9	17	25	26	33	41	49	1	2
Note#		Ke	y Alternate	1.	Standard2 Kit	Room Kit	Rock Kit	Electro Kit	Analog Kit	Jazz Kit	Brush Kit	Classic Kit	SFX 1	SFX 2
		0												
13	C# -1		3	Surdo Mute										
	D -1		3	Surdo Open										
	D# -1			Hi Q										
	E -1			Whip Slap										
	F -1		4	Scratch Push										
18	F# -1	Т	4	Scratch Pull										
	G -1			Finger Snap										
20	G# -1	Т		Click Noise										
21	A -1			Metronome Click										
22	A# -1			Metronome Bell										
	B -1			Seq Click L										
24	C 0			Seq Click H										
	C# 0			Brush Tap										
	D 0			Brush Swirl L										
	D# 0			Brush Slap										
	E 0			Brush Swirl H				Reverse Cymbal	Reverse Cymbal					
	F 0			Snare Roll	Snare Roll 2									
	F# 0			Castanet				Hi Q	Hi Q					
	G 0			Snare L	Snare L 2		SD Rock M	Snare M	SD Rock H		Brush Slap L			
	G# 0		+	Sticks			D D	D D	D D 11			D D 1.7		
	A 0		+	Bass Drum L	Ones Div Ot -: -		Bass Drum M	Bass Drum H 4	Bass Drum M			Bass Drum L2		
	A# 0		+	Open Rim Shot	Open Rim Shot 2		Base Drim U.S.	BD Pool:	BD Applor !			Gran Caeca		
	B 0 C 1		+	Bass Drum M	Bass Drum M 2		Bass Drum H 3	BD Rock	BD Analog L	DD leas	BD Soft	Gran Cassa Gran Cassa Mute	Cuites Cutting No.	Diel Tene
	C# 1		+	Bass Drum H Side Stick	Bass Drum H 2		BD Rock	BD Gate	BD Analog H Analog Side Stick	BD Jazz	PD 2011	Gran Cassa Mute	Guitar Cutting Noise Guitar Cutting Noise 2	Dial Tone Door Creaking
	D 1		+	Snare M	Snare M 2	SD Room L	SD Rock	SD Rock L	Analog Side Stick Analog Snare L		Brush Slap M	Marching Sn M	Guildi Gulling NOIS8 2	Door Creaking Door Slam
	D# 1		+	Hand Clap	Oridite IVI Z	SD ROUIII L	SD RUCK	SD ROCK L	Analog State L		отизн онар М	warding on w	String Slap	Scratch
	E 1		+	Snare H	Snare H 2	SD Room H	SD Rock Rim	SD Rock H	Analog Snare H		Brush Tap H	Marching Sn H	Guilly Glap	Scratch 2
	F 1		+	Floor Tom L	23101112	Room Tom 1	Rock Tom 1	E Tom 1	Analog Tom 1	Jazz Tom 1	Brush Tom 1	Jazz Tom 1		Windchime
	F# 1		1	Hi-Hat Closed					Analog HH Closed 1	- TOIT I	210011 10111 1	CLE TOM I		Telephone Ring2
	G 1		1	Floor Tom H		Room Tom 2	Rock Tom 2	E Tom 2	Analog Tom 2	Jazz Tom 2	Brush Tom 2	Jazz Tom 2		
	G# 1		1	Hi-Hat Pedal		TOOM TOME	TOOK TOILE	E TOILE	Analog HH Closed 2	OULL TOTAL	Broom rom 2	OGEE TOTAL		
	A 1			Low Tom		Room Tom 3	Rock Tom 3	E Tom 3	Analog Tom 3	Jazz Tom 3	Brush Tom 3	Jazz Tom 3		
	A# 1		1	Hi-Hat Open					Analog HH Open					
	B 1			Mid Tom L		Room Tom 4	Rock Tom 4	E Tom 4	Analog Tom 4	Jazz Tom 4	Brush Tom 4	Jazz Tom 4		
	C 2			Mid Tom H		Room Tom 5	Rock Tom 5	E Tom 5	Analog Tom 5	Jazz Tom 5	Brush Tom 5	Jazz Tom 5		
49	C# 2	\top		Crash Cymbal 1					Analog Cymbal			Hand Cym.Open L		
50	D 2	\top		High Tom		Room Tom 6	Rock Tom 6	E Tom 6	Analog Tom 6	Jazz Tom 6	Brush Tom 6	Jazz Tom 6		
51	D# 2			Ride Cymbal 1								Hand Cym.Closed L		
52	E 2	Т		Chinese Cymbal									FL.Key Click	Engine Start
	F 2			Ride Cymbal Cup										Tire Screech
	F# 2			Tambourine										Car Passing
55	G 2			Splash Cymbal										Crash
	G# 2			Cowbell					Analog Cowbell					Siren
	A 2			Crash Cymbal 2								Hand Cym.Open H		Train
	A# 2			Vibraslap										Jetplane
	B 2			Ride Cymbal 2								Hand Cym.Closed H		Starship
	C 3			Bongo H										Burst Noise
	C# 3			Bongo L					Andre O					Coaster
	D 3		+	Conga H Mute					Analog Conga H					SbMarine
	D# 3		+	Conga H Open					Analog Conga M					
	E 3		+	Conga L					Analog Conga L					
	F 3		+	Timbale H Timbale L										
	F# 3		+											
	G# 3	_	+	Agogo H									Rain	Laughing
	A 3		+	Agogo L Cabasa									Thunder	Screaming
	A# 3		_	Maracas					Analog Maracas				Wind	Punch
	А# 3 В 3		+	Samba Whistle H					, wainy wididuds				Stream	Heartbeat
	C 4		_	Samba Whistle L									Bubble	Footsteps
	C# 4		_	Guiro Short									Feed	ро
	D 4		_	Guiro Long										
	D# 4			Claves					Analog Claves					
	E 4	_		Wood Block H										
77	F 4			Wood Block L										
	F# 4			Cuica Mute				Scratch Push	Scratch Push					
	G 4			Cuica Open				Scratch Pull	Scratch Pull					
	G# 4		2	Triangle Mute										
81	A 4		2	Triangle Open										
	A# 4			Shaker										
	B 4			Jingle Bell										
	C 5			Bell Tree									Dog	Machine Gun
	C# 5	Т											Horse Gallop	Laser Gun
86	D 5	\top											Bird 2	Explosion
	D# 5													FireWork
88	E 5	Т												
	F 5													
90	F# 5	Т											Ghost	
	G 5												Maou	
		_	-											

Same as Standard
No Sound

Drum and percussion sounds assigned to the same Alternate Assign numbered group cannot be sounded simultaineously. For example, the Hi-Hat Open sound (group 1) and Hi-Hat Closed sound (also group 1) cannot be sounded at the same time.

TG300B Drum Voice List

Progra	m #		1	9	17	25	26	33	41	49	57	128
Note#	Note	Alternate	Standard Kit	Room Kit	Power Kit	Electro Kit	Analog Kit	Jazz Kit	Brush Kit	Orchestra Kit	SFX Set	C/M Kit
		assign										
5	C# 0	and a great	Snare Roll									
16	D 0		Finger Snap									
	D# 0		Hi Q							Hi-Hat Closed		
	E 0		Whip Slap							Hi-Hat Pedal		
	F 0	7	Scratch Push							Hi-Hat Open		
	F# 0	7	Scratch Pull							Ride Cymbal 1		
	G 0	<u> </u>	Sticks							Ride Cymbai i		
			Click Noise									
	G# 0											
33	A 0		Metronome Click									
	A# 0		Metronome Bell									
	B 0		Bass Drum M							BD Jazz		
36	C 1		Bass Drum H		BD Power	BD Electronic	BD Analog H	BD Jazz	BD Soft	Gran Cassa		
	C# 1		Side Stick				Analog Side Stick					
	D 1		Snare M		SD Power	SD Electronic	Analog Snare L		Brush Tap	Concert SD		
	D# 1		Hand Clap						Brush Slap	Castanet	High-Q	
	E 1		Snare H			SD Power			Brush Swirl	Concert SD	Slap	SD Electro
	F 1		Floor Tom L	Room Tom 1	Room Tom 1	E Tom 1	Analog Tom 1	Jazz Tom 1	Jazz Tom 1		Scratch Push	
42	F# 1	1	Hi-Hat Closed				Analog HH Closed 1			Timpani F#	Scratch Pull	
43	G 1		Floor Tom H	Room Tom 2	Room Tom 2	E Tom 2	Analog Tom 2	Jazz Tom 2	Jazz Tom 2	Timpani G	Sticks	
14	G# 1	1	Hi-Hat Pedal				Analog HH Closed 2			Timpani G#	Square Click	Hi-Hat Open
15	A 1		Low Tom	Room Tom 3	Room Tom 3	E Tom 3	Analog Tom 3	Jazz Tom 3	Jazz Tom 3	Timpani A	Metronome Click	
16	A# 1	1	Hi-Hat Open				Analog HH Open			Timpani A#	Metronome Bell	Hi-Hat Open
	B 1		Mid Tom L	Room Tom 4	Room Tom 4	E Tom 4	Analog Tom 4	Jazz Tom 4	Jazz Tom 4	Timpani B	Guitar Fret Noise	
	C 2		Mid Tom H	Room Tom 5		E Tom 5	Analog Tom 5		Jazz Tom 5	Timpani C	Guitar Cutting Down	
19	C# 2		Crash Cymbal 1				Analog Cymbal			Timpani C#	Guitar Cutting Up	
	D 2		High Tom	Room Tom 6	Room Tom 6	E Tom 6	Analog Tom 6	Jazz Tom 6	Jazz Tom 6	Timpani D	Ac Bass Slap	
	D# 2		Ride Cymbal 1					1		Timpani D#	FL.Key Click	
52	E 2		Chinese Cymbal			Reverse Cymbal				Timpani E	Laughing	
	F 2		Ride Cymbal Cup			reverse Cynibal				Timpani E	Screaming	
	F# 2		Tambourine							· · · · · parii i	Punch	
55	F# 2		Splash Cymbal								Punch Heartbeat	
	G 2 G# 2	-					A I C I - I'					
			Cowbell				Analog Cowbell				Footsteps 1	
57	A 2		Crash Cymbal 2							Hand Cym.1	Footsteps 2	
58	A# 2		Vibraslap								Applause	
	B 2		Ride Cymbal 2							Hand Cym.2	Door Creaking	
	C 3		Bongo H								Door Slam	
	C# 3		Bongo L								Scratch	
	D 3		Conga H Mute				Analog Conga H				Windchime	
63	D# 3		Conga H Open				Analog Conga M				Engine Start	
64	E 3		Conga L				Analog Conga L				Tire Screech	
65	F 3		Timbale H								Car Passing	
66	F# 3		Timbale L								Crash	
67	G 3		Agogo H								Siren	
68	G# 3		Agogo L								Train	
69	A 3		Cabasa								Jetplane	
	A# 3		Maracas				Analog Maracas				Helicopter	
71	В 3	2	Samba Whistle H								Starship	
	C 4	2	Samba Whistle I								Gunshot	
	C# 4	3	Guiro Short								Machine Gun	Vibraslap
74	D 4	3									Laser Gun	vibrasiap
	D# 4	3	Guiro Long				A I OI					
			Claves				Analog Claves				Explosion	
76	E 4		Wood Block H								Dog	Laughing
77	F 4	l	Wood Block L								Horse Gallop	Screaming
	F# 4	4	Cuica Mute								Bird Tweet	Punch
	G 4	4	Cuica Open								Rain	Heartbeat
	G# 4	5	Triangle Mute								Thunder	Footsteps 1
31	A 4	5	Triangle Open								Wind	Footsteps 2
	A# 4		Shaker								Seashore	Applause
	B 4		Jingle Bell								Stream	Door Creaki
34	C 5		Bell Tree								Bubble	Door Slam
	C# 5		Castanet									Scratch
36	D 5	6	Surdo Mute									Windchime
37	D# 5	6	Surdo Open									Engine Start
	E 5									Applause		Tire Screech
	F 5											Car Passing
	F# 5											Crash
	G 5	†										Siren
	G# 5	-										Train
		-										
	A 5	-										Jetplane
	A# 5											Helicopter
	B 5											Starship
	C 6											Gunshot
	C# 6											Machine Gu
	D 6											Laser Gun
99	D# 6											Explosion
100	E 6											Dog
	F 6											Horse Gallo
	F# 6	—										Bird Tweet
103	G 6											Rain
	G# 6	-										Thunder
		-										
105	A 6											Wind
		1										Seashore
106	A# 6	_										-
106 107	A# 6 B 6 C 7											Stream Bubble

Same as Standard Kit
No Sound

In the C/M Kit, some settings such as Volume, Pan and Effect Send are different than the Standard Kit.

No.	Param Name	Comments
1	UpOct1	The chord (or phrase) ascends up to 1 Octave.
2	UpOct2	The chord (or phrase) ascends up to 2 Octaves.
3	UpOct4	The chord (or phrase) ascends up to 4 Octaves.
4	DwOct1	The chord (or phrase) descends down to 1 Octave.
5	DwOct2	The chord (or phrase) descends down to 2 Octaves.
6	DwOct4	The chord (or phrase) descends down to 4 Octaves.
7	UpDwAOct1	The chord (or phrase) ascends up to 1 Octave, then descends.
8	UpDwAOct2	The chord (or phrase) ascends up to 2 Octaves, then descends.
	UpDwAOct4	The chord (or phrase) ascends up to 4 Octaves, then descends.
	UpDwBOct1	The chord (or phrase) ascends up to 1 Octave, then descends. (This feature is slightly different from type UpDwAOct1)
_	UpDwBOct2	The chord (or phrase) ascends up to 2 Octaves, then descends. (This feature is slightly different from type UpDwAOct2)
_	UpDwBOct4	The chord (or phrase) ascends up to 4 Octaves, then descends. (This feature is slightly different from type UpDwAOct4)
	RandmOct1	Plays up and down randomly between 1 Octave, based on the chord you play.
_	RandmOct2	Plays up and down randomly between 2 Octaves, based on the chord you play.
15	RandmOct4	Plays up and down randomly between 4 Octaves, based on the chord you play.
16	Techno-A	Typical tecno sequence TYPE A . (Euro techno type)
17	Techno-B	Typical techno sequence TYPE B. (UK Type with Velocity)
18	Techno-C	Typical techno sequence TYPE C. (Japan techno type)
19		Typical techno sequence TYPE D. (German techno type)
	DAHouse	Backing sequence with House music feel. (Bass for left hand, Chord play for right hand)
	SyncopaA	Syncopation type sequence TYPE A.
	SyncopaB	Syncopation type sequence TYPE B. (Octave moves extremely)
23	Echo&Pan	Moving panning sequence with echo.
24		Moving filter sequence with echo.
25	SweepLine	Sweeping filter sequence.
26	PulseLine	The sequence mixed with bass line and sequence line.
	BassLineA	Arpeggio phrase TYPE A for bass.
_	BassLineB	Arpeggio phrase TYPE B for bass. (with Velocity)
	BassLineC	Arpeggio phrase TYPE C for bass.
30	BassLineD	Arpeggio phrase TYPE D for bass.

Many MIDI messages listed in the MIDI Data Format section are expressed in hexadecimal or binary numbers. Hexadecimal numbers may include the letter "H" as a suffix. The letter "n" indicates a certain whole number.

The chart below lists the corresponding decimal number for each hexadecimal/binary number

Decimal	Hexadecimal	Binary
0	00	0000 0000
1	01	0000 0001
2	02	0000 0010
3	03	0000 0011
4	04	0000 0011
5		
	05	0000 0101
6	06	0000 0110
7	07	0000 0111
8	08	0000 1000
9	09	0000 1001
10	0A	0000 1010
11	0B	0000 1011
12	0C	0000 1100
13	0D	0000 1101
14	0E	0000 1110
15	0F	0000 1111
16	10	0001 0000
17	11	0001 0001
18	12	0001 0010
19	13	0001 0010
20	14	0001 0011
21	15	0001 0101
22	16	0001 0110
23	17	0001 0111
24	18	0001 1000
25	19	0001 1001
26	1A	0001 1010
27	1B	0001 1011
28	1C	0001 1100
29	1D	0001 1101
30	1E	0001 1110
31	1F	0001 1111
32	20	0010 0000
	21	
33		0010 0001
34	22	0010 0010
35	23	0010 0011
36	24	0010 0100
37	25	0010 0101
38	26	0010 0110
39	27	0010 0111
40	28	0010 1000
41	29	0010 1001
42	2A	0010 1010
43	2B	0010 1011
44	2C	0010 1100
45	2D	0010 1101
46	2E	0010 1110
47	2F	0010 1111
48	30	0010 1111
49	31	0011 0001
50	32	0011 0010
51	33	0011 0011
52	34	0011 0100
53	35	0011 0101
54	36	0011 0110
55	37	0011 0111
56	38	0011 1000
57	39	0011 1001
58	3A	0011 1010
59	3B	0011 1011
60	3C	0011 1011
61	3D	
62	3E	0011 1110
63	3F	0011 1111

Decimal	Hexadecimal	Binary
64	4 0	0100 0000
65	41	0100 0000
66	42	0100 0001
67	43	0100 0010
68	44	0100 0011
69 70	4.5 4.6	0100 0101 0100 0110
71	47	
		0100 0111
72	48	0100 1000
73	49	0100 1001
74	4 A	0100 1010
75	4 B	0100 1011
76	4C	0100 1100
77	4D	0100 1101
78	4 E	0100 1110
79	4F	0100 1111
80	50	0101 0000
81	51	0101 0001
82	52	0101 0010
83	53	0101 0011
84	54	0101 0100
85	55	0101 0101
86	56	0101 0110
87	57	0101 0111
88	58	0101 1000
89	59	0101 1001
90	5A	0101 1010
91	5B	0101 1011
92	5C	0101 1100
93	5D	0101 1101
94	5 E	
95		
	5F	0101 1111
96	60	0110 0000
97	61	0110 0001
98	62	0110 0010
99	63	0110 0011
100	64	0110 0100
101	65	0110 0101
102	66	0110 0110
103	67	0110 0111
104	68	0110 1000
105	69	0110 1001
106	6 A	0110 1010
107	6B	0110 1011
108	6C	0110 1100
109	6D	0110 1101
110	6 E	0110 1110
111	6F	0110 1111
112	70	0111 0000
113	71	0111 0001
114	72	0111 0010
115	73	0111 0011
116	74	0111 0100
117	75	0111 0101
118	76	0111 0110
119	77	0111 0110
120	78	0111 0111
121	79	0111 1000
122	7A	0111 1010
123	7B	0111 1011
124	7C	0111 1100
125	7D	0111 1101
125 126 127	7D 7E 7F	0111 1101 0111 1110 0111 1111

Additional Notes

- For example, 144 159(Decimal)9nH/1001 0000 1001 1111(Binary) indicate the note-on messages for the channels 1 through 16 respectively. 176 191/BnH/1011 0000 1011 1111 indicate the control change messages for the channels 1 through 16 respectively. 192 207/CnH/1100 0000 1100 1111 indicate the program change messages for the channels 1 through 16 respectively. 240/F0H/1111 0000 is positioned at the beginning of data to indicate a system exclusive message. 247/F7H/1111 0111 is positioned at the end of the system exclusive message.
- $\boldsymbol{\cdot} \text{ aaH(Hexadecimal)/0aaaaaaa(Binary) indicates the data addresses. The data address consists of High, Mid and Low algebra and the state of th$
- bbH/0bbbbbbb indicates byte counts
- ccH/0cccccc indicates tcheck sums
- ddH/0dddddd indicates data/value.

Synthesizer Section

(1) TRANSMIT FLOW

```
--NOTE ON/OFF
                                                                               9nH
OUT
                          CONTROL CHANGE
                            BANK SEL MSB
BANK SEL LSB
                                                                                BnH,00H
                                                                               BnH, 20H
                            MODULATION
                                                                               BnH,01H
                             EXPRESSION
                                                                               BnH,0BH
                             FOOT CONTROLLER
                            SUSTAIN SWITCH
                                                                               BnH, 40H
                            HARMONIC CONTENT
RELEASE TIME
ATTACK TIME
                                                                                BnH. 47H
                                                                               BnH,48H
BnH,49H
                            BRIGHTNESS
                                                                               BnH, 4AH
                            ASSIGNABLE
                                                                               BnH,00H...5FH
                      --PROGRAM CHANGE
                                                                               CnH
                    ---PITCH BEND CHANGE
           +[]-+---SYSTEM EXCLUSIV MESSAGE
                            <BULK DUMP>
                                                                               FOH 43H ONH 4CH bbH bbH aaH aaH aaH ddH....ddH ccH F7H
FOH 43H ONH 4CH bbH bbH aaH aaH aaH ddH....ddH ccH F7H
F0H 43H ONH 4CH bbH bbH aaH aaH aaH ddH....ddH ccH F7H
                    -[SW3]- MULTI EFFECT
                    -[SW5]- MULTI PART
                                                                               FUH 43H UNH 4CH DOH DDH aaH aaH aaH ddH. ...ddH ccH F7H F0H 43H UNH 4CH DDH DBH aaH aaH ddH. ...ddH ccH F7H F0H 43H UNH 4CH DDH DDH aaH aaH ddH. ...ddH ccH F7H F0H 43H UNH 4BH DDH DDH 70H aaH aaH ddH. ...ddH ccH F7H F0H 43H UNH 4BH DDH 71H aaH aaH ddH. ...ddH ccH F7H F0H 43H UNH 4BH DDH 71H aaH aaH ddH. ...ddH ccH F7H F0H 43H UNH 4BH DDH 50H aAH aaH ddH. ...ddH ccH F7H F0H 43H UNH 4BH DDH DDH 50H aaH aAH ddH. ...ddH ccH F7H F0H 43H UNH 4BH DDH DDH 50H aAH aAH ddH. ...ddH ccH F7H
                      ----- DRUM SETUP
                                   SYSTEM INFOMATION
                     ----- USER PERF.COMMON
                              -- USER PERF. LAYER
                    -[SW4]- CURRENT PERFORMANCE
                            <PARAMETER CHANGE>
                                                                               FOH 43H 1nH 27H 30H 00H 00H mmH 11H ccH F7H
F0H 43H 1nH 4CH aaH aaH aaH ddH....ddH F7H
F0H 43H 1nH 4CH aaH aaH aaH ddH....ddH F7H
                           --- MIDI MASTER TUNING
--- XG SYSTEM
                    -[SW3]- MULTI EFFECT
                                                                               FUH 43H 1nH 4CH aaH aaH aaH ddH. . .ddH F7H
FOH 43H 1nH 4CH aaH aaH aaH ddH. .ddH F7H
F0H 43H 1nH 4CH aaH aaH aaH ddH. . .ddH F7H
F0H 43H 1nH 4BH 70H aaH aaH ddH. . .ddH F7H
F0H 43H 1nH 4BH 7H aaH aaH ddH. . .ddH F7H
F0H 43H 1nH 4BH 50H aaH adH ddH. . .ddH F7H
F0H 43H 1nH 4BH 50H aaH aaH ddH. . .ddH F7H
                    -[SW5]- MULTI PART
----- DRUM SETUP
                     ----- DRUM SETUP
                      ---- USER PERF.LAYER
                    -[SW4]- CURRENT PERFORMANCE
                            SYSTEM EXCLUSIV MESSAGE
                            MIDI MASTER VOLUME
IDENTITY REPLY
                                                                               FOH 7FH 7FH 04H 01H 11H mmH F7H
F0H 7EH 7FH 06H 02H 43H 00H 41H ddH ddH
                                                                               00H 00H 00H 01H F7H
                     --- ACTIVE SENSING
                 MIDI Transmit Channel (Depends on Keyboard Transmit Channel in Utility Mode).
SW2 []
SW3 []
                 MIDI Device Number(When Device Number is "All", Transmit Channel is 1) Multi Mode
                 Performance Mode
```

(2) RECEIVE FLOW

```
IN
           -[]-+--- NOTE OFF 8nH
                         CONTROL CHANGE
                         BANK SEL MSB
BANK SEL LSB
                                                                        BnH, 20H
                          MODULATIONBHH,01H
                         PORTAMENTO TIME
DATA ENTRY MSB
DATA ENTRY LSB
                                                                        BnH.05H
                                                                        BnH, 26H
                          MAIN VOLUME
                                                                        BnH,07H
                          PANPOT BnH, 0AH
EXPRESSIONBnH, 0BH
                                                                        BnH,10H
                          FOOT CONTROLLER
                          SUSTAIN SWITCH
                                                                        BnH . 40H
                          PORTAMENTO SWITCH
SOSTENUTO BnH, 42H
                          SOFT PEDALBNH, 43H
                         HARMONIC CONTENT
RELEASE TIME
ATTACK TIME
                                                                        BnH.47H
                                                                        BnH,49H
                          BRIGHTNESSBnH, 4AH
                          PORTAMENTO CONTROL
REVERB DEPTH
                                                                        BnH.54H
                                                                        BnH,5BH
                          CHORUS DEPTH
                                                                        BnH,5DH
                          VARIATION DEPTH
                                                                        BnH.5EH
                         DATA ENTRY INC
DATA ENTRY DEC
                                                                        BnH,60H
BnH,61H
                          ASSIGNABLE CONTROLLER
                                                                        BnH,00H..5FH
                                                                        BnH,63H,01H,62H,08H,06H,mmH
BnH,63H,01H,62H,09H,06H,mmH
BnH,63H,01H,62H,0AH,06H,mmH
BnH,63H,01H,62H,20H,06H,mmH
BnH,63H,01H,62H,21H,06H,mmH
                                    VIBRATO RATE
                                    VIBRATO DEPTH
                                    VIBRATO DELAY
                                    FILTER CUTOFF FREQ.
FILTER RESONANCE
                                     AEG ATTACK TIME
                                                                        BnH,63H,01H,62H,63H,06H,mmH
                                    AEG DECAY TIME
AEG RELEASE TIME
DRUM INST
                                                                        BnH,63H,01H,62H,64H,06H,mmH
                                       CUTOFF FREQ.
FILTER RESONANCE
AEG ATTACK RATE
                                                                        BnH,63H,14H,62H,rrH,06H,mmH
                                                                        BnH,63H,15H,62H,rrH,06H,mmH
BnH,63H,16H,62H,rrH,06H,mmH
BnH,63H,17H,62H,rrH,06H,mmH
                                       AEG DECAY RATE
                                                                        BnH,63H,18H,62H,rrH,06H,mmH
BnH,63H,1AH,62H,rrH,06H,mmH
BnH,63H,1CH,62H,rrH,06H,mmH
                                       PITCH COARSE
                                       LEVEL
                                       PANPOT
```

REVERB SEND

BnH,63H,1DH,62H,rrH,06H,mmH

Parts 5 through 16 in Performance Mode, or Multi Mode

63:USER/PRESET PERFORMANCE

```
CHORUS SEND
                                                       BnH,63H,1EH,62H,rrH,06H,mmH
                             VARIATION SEND
                                                       BnH.63H.1FH.62H.rrH.06H.mmH
                   RPN
                          DITCH BEND SENS
                                                       BnH 64H 00H 65H 00H 06H mmH
                                                       BnH,64H,01H,65H,00H,06H,mmH,26H,11H
BnH,64H,02H,65H,00H,06H,mmH
                          COARSE TUNING
                          RPN RESET
                                                       BnH.64H.7FH.65H.7FH
                   ALL SOUNDS OFF
RESET ALL CONTROLLERS
                                                       BnH,78H,00H
BnH,79H,00H
                   ALL NOTES OFF
                                                       BnH.7BH
                   OMNI MODE OFF
                                                       BnH 7CH
                    OMNI MODE ON BnH,7DH
                   MONO MODE BnH,7EH
POLY MODE BnH,7FH
              --- CHANNEL AFTER TOUCH
                                                       DnH
             SW2
       -[]-+--- SYSTEM EXCLUSIV MESSAGE
                    <BULK DUMP>
                                                       FOH 43H OnH 4CH bbH bbH aaH aaH ddH.....ddH ccH F7H
                                                       FOH 43H ONH 4CH DOH DOH aaH aaH aaH ddH. . . ddH ccH F7H F0H 43H ONH 4CH DOH DDH aaH aaH aaH ddH. . . ddH ccH F7H F0H 43H ONH 4CH DDH DDH aaH aaH aaH ddH. . . ddH ccH F7H F0H 43H ONH 4BH DDH DDH 70H aaH aaH ddH. . . ddH ccH F7H
              -[SW3]- MULTI EFFECT
              -[SW5]- MULTI PART
----- DRUM SETUP
               ----- USER PERF.COMMON
                                                       FOH 43H OHH 4BH bbH bbH 71H aaH aaH ddH...ddH ccH F7H
F0H 43H OHH 4BH hhH bbH 60H 01H aaH ddH...ddH ccH F7H
F0H 43H OHH 4BH bbH bbH 50H aaH aaH ddH...ddH ccH F7H
               ----- USER PERF.LAYER
              -[SW4]- CURRENT PERFORMANCE
                   <PARAMETER CHANGE>
                 ----- MIDI MASTER TUNING
                                                       FOH 43H 1nH 27H 30H 00H 00H mmH 11H ccH F7H
                                                       FOH 43H 1nH 4CH 00H 00H 7EH 00H F7H
F0H 43H 1nH 4CH aaH aaH aaH ddH....ddH F7H
                    --- XG SYSTEM
                                                       FOH 43H lnH 4CH aaH aaH aaH ddH. ..ddH F7H
FOH 43H lnH 4CH aaH aaH aaH ddH. ..ddH F7H
FOH 43H lnH 4CH aaH aaH aaH ddH. ..ddH F7H
FOH 43H lnH 4BH 7OH aaH aaH ddH. ..ddH F7H
              -[SW3]- MULTI EFFECT
              -[SW5]- MULTI PART
----- DRUM SETUP
               ----- USER PERF.COMMON
                                                       FOH 43H 1nH 4BH 71H aaH aaH ddH....ddH F7H
F0H 43H 1nH 4BH 60H 01H aaH ddH....ddH F7H
F0H 43H 1nH 4BH 50H aaH adH ddH....ddH F7H
               ----- USER PERF.LAYER
              -[SW4]- CURRENT PERFORMANCE
                   <BULK DUMP REQUEST>
              ----- XG SYSTEM
-[SW3]- MULTI EFFECT
-[SW5]- MULTI PART
                                                       FOH 43H 2nH 4CH aaH aaH aaH F7H
                                                       FOH 43H 2NH 4CH aaH aaH aaH F7H
F0H 43H 2NH 4CH aaH aaH aaH F7H
               ----- DRUM SETUP
                                                       FOH 43H 2nH 4CH aaH aaH aaH F7H
              ----- SYSTEM INFOMATION
----- USER PERF.COMMON
                                                       FOH 43H 2nH 4CH aaH aaH aaH F7H
F0H 43H 2nH 4BH 70H aaH aaH F7H
F0H 43H 2nH 4BH 71H aaH aaH F7H
                    --- USER PERF.LAYER
              -[SW4]- CURRENT PERFORMANCE
                                                       FOH 43H 2nH 4BH 60H 01H aaH F7H
                   --- CS1x SYSTEM
<PARAMETER REQUEST>
                                                        FOH 43H 2nH 4BH 50H aaH aaH F7H
                     -- XG SYSTEM
                                                       FOH 43H 3nH 4CH aaH aaH aaH F7H
              -[SW3]- MULTI EFFECT
-[SW3]- MULTI PART
-[SW3]- DRUM SETUP
                                                       FOH 43H 3nH 4CH aaH aaH aaH F7H
FOH 43H 3nH 4CH aaH aaH aaH F7H
FOH 43H 3nH 4CH aaH aaH aaH F7H
                ----- USER PERF.COMMON
                                                       FOH 43H 3nH 4BH 70H aaH aaH F7H
              ----- USER PERF.LAYER
-[SW4]- CURRENT PERFORMANCE
                                                       FOH 43H 3nH 4BH 71H aaH aaH F7H
F0H 43H 3nH 4BH 60H 01H aaH F7H
                                                       FOH 43H 3nH 4BH 50H aaH aaH F7H
                 ---- CS1x SYSTEM
             -+--- SYSTEM EXCLUSIV MESSAGE
                                                       FOH 7EH 7FH 09H 01H F7H
                        GM MODE ON
                       MIDI MASTER VOLUME
                                                       FOH 7FH 7FH 04H 01H 11H mmH F7H
                        IDENTITY REQUEST
                                                       FOH 7EH OnH 06H 01H F7H
    ------ SYSTEM EXCLUSIV MESSAGE
             |--- PARAMETER CHANGE
                         TEST ENTRY
LCD HARD COPY
                                                      FOH 43H 10H 18H 5AH 00H F7H
F0H 43H 10H 18H 5AH 01H F7H
              .
+--- ACTIVE SENSING
                                                       FEH
            MIDI Device Number
SW2 []
SW3 []
            Multi Mode
SW4 []
SW5 []
            Performance Mode
arts 5 through 16 in Performance Mode, or Multi Mode
SW6 []
            Receive Filter
             Only when the drum is selected for the Part.
SW7 []
            MIDI Receive Channel(In Performance Mode, depends on the Receive Channel in Utility
(3) TRANSMIT/RECEIVE
(3-1) CHANNEL VOICE MESSAGES
  (3-1-1) NOTE OFF(Receive only)
                              1000nnnn(8nH)
      STATUS
                                                                - 15 VOICE CHANNEL NUMBER
                                                       " - 0 - 15 VOICE CHANNE
k = 0 (C-2) - 127 (G8)
ignores "v"
      NOTE NUMBER
                              0kkkkkkk
  (3-1-2) NOTE ON/OFF
                              1001nnnn(9nH)
                                                       n = 0 - 15 VOICE CHANNEL NUMBER
                                                       NOTE NUMBER
                              0kkkkkkk
      VELOCITY
                              00000000
                                                       (v = 0) NOTE OFF
```

(3-1-3) PROGRAM CHANGE

1100nnnn (CnH) n = 0 - 15 VOICE CHANNEL NUMBER PROGRAM NUMBER Oppppppp

* The Program numbers correspond to the XG Drum Voice numbers as follows

DR 2 Standard2 DR 3 Room P = 17 DR4 P = 25 DR5 Elctrnic P = 26 DR6 Analog P = 33 DR7 Jazz P = 41 DR8 P = 49 DR9 Classic

*The Program numbers correspond to the XG SFX Kit numbers as follows

P = 2 DR11 SFX2

When receiving a drum voice program change message while a drum voice is currently selected, the drum setup data will be reset to the new data.

(3-1-4) CHANNEL AFTER TOUCH(Receive only)

1101nnnn(DnH) 0vvvvvvv n = 0 - 15 VOICE CHANNEL NUMBER

(3-1-5) PITCH BEND CHANGE

n = 0 - 15 VOICE CHANNEL NUMBER 1110nnnn(EnH) STATUS LSB 0vvvvvv PITCH BEND CHANGE LSB MSB PITCH BEND CHANGE MSB

Transmitted with a resolution of 7 bits.

(3-1-6) CONTROL CHANGE

n = 0 - 15 VOICE CHANNEL NUMBER STATUS 1011nnnn(BnH) CONTROL NUMBER

* TRANSMITTED CONTROL NUMBERS

		04.SFA NORMAL,	
		126:XG SFX KIT,	
		127:XG DRUM	
c = 32	BANK SEL LSB	; v = 0 - 127	*3
c = 1	MODULATION	; v = 0 - 127	*2
c = 11	EXPRESSION	; v = 0 - 127	
c = 16	FOOT CONTROLLER	; v = 0 - 127	*2
c = 64	SUSTAIN SWITCH	; v = 0-63:OFF , 64-127:ON	*2
c = 71	HARMONIC CONTENT	; v = 0:-64 - 64:0 - 127:+63	*2
c = 72	RELEASE TIME	; v = 0:-64 - 64:0 - 127:+63	*2
c = 73	ATTACK TIME	; v = 0:-64 - 64:0 - 127:+63	*2
c = 74	BRIGHTNESS	; v = 0:-64 - 64:0 - 127:+63	*2
c = 0095	ASSIGNABLE CONT	v = 0 - 127	*2
* RECEIVED CON	TROL NUMBERS		
c = 0	BANK SEL MSB	; v = 0:XG NORMAL,	

^ 2	KE(EIVED	CONTROL	NUMBER	KS					
c :	=	0		BANK	SEL	MSB	;	v =	0:XG NORMAL,	
									63:USER/PRESET	PEROFRMANCE/VOICE,

		64:SFX NORMAL,	
		126:XG SFX KIT,	
		127:XG DRUM	
c = 32	BANK SEL LSB	v = 0 - 127	*3
c = 1	MODULATION	v = 0 - 127	*2
c = 5	PORTAMENTO TIME	v = 0 - 127	*2
c = 6	DATA ENTRY MSB	v = 0 - 127	*1
c = 38	DATA ENTRY LSB	v = 0 - 127	*1
c = 7	MAIN VOLUME	v = 0 - 127	
c = 10	PANPOT	v = 0 - 127	
c = 11	EXPRESSION	v = 0 - 127	
c = 16	FOOT CONTROLLER	v = 0 - 127	*2
c = 64	SUSTAIN SWITCH	; v = 0-63:OFF , 64-127:ON	*2
c = 65	PORTAMENTO SWITCH	; v = 0-63:OFF , 64-127:ON	*2
c = 66	SOSTENUTO	; v = 0-63:OFF , 64-127:ON	*2
c = 67	SOFT PEDAL	; v = 0-63:OFF , 64-127:ON	*2
c = 71	HARMONIC CONTENT	v = 0:-64 - 64:0 - 127:+63	*2
c = 72	RELEASE TIME	v = 0:-64 - 64:0 - 127:+63	*2
c = 73	ATTACK TIME	v = 0:-64 - 64:0 - 127:+63	*2
c = 74	BRIGHTNESS	v = 0:-64 - 64:0 - 127:+63	*2
c = 84	PORTAMENT CONTROL	v = 0 - 127	*2
c = 91	REVERB DEPTH	v = 0 - 127	
- 03	GUODUG DEDENI	0 107	

*1 Used only when assigning the parameter with RPN numbers. *2 Ineffective with the drum voices.

*3 0 is selected, when the MSB value is other than 0 or 63.

- is selected, when the MSB value is 0.
- 64(Preset Performance). 65(User Performance) or 8(Preset Voice) is selected, when the MSB value is 63

VARIATION DEPTH

DATA ENTRY INC DATA ENTRY DEC

ASSIGNABLE CONT

c = 94 c = 96 c = 97

- PORTAMENTO TIME sets the time it takes for the pitch to reach the next note played when PORTAMENT SWITCH (CONTROL #65) is set to on. 0 is the minimum time and 127 is the maximum.
- · PANPOT position relatively changes according to the preset value for each normal/drum voice. It is not effective for the sounds
- · PORTAMENT TIME is fixed to 0 in PORTAMENT CONTROL.
- $\bullet \ REVERB \ DEPTH \ controls \ reverb \ send \ level. \ CHORUS \ DEPTH \ controls \ chorus \ send \ level. \ VARIATION \ DEPTH \ controls \ variation \ depth \ controls \ variation \ depth \ dept$
- HARMONIC CONTENT adjusts the resonance preset for each voice. Setting a value adds to or subtracts from the center value 64 since it is an offset parameter. The larger the value more resonant sound will be produced. The effective range may be narrower than the range you can designate depending on the selected voice.

MIDI Data Format

- RELEASE TIME adjusts the envelop release time preset for each voice. Setting a value adds to or subtracts from the center value 64 since
- ATTACK TIME adjusts the envelop attack time preset for each voice. Setting a value adds to or subtracts from the center value 64 since it
- BRIGHTNESS adjusts the cutoff frequency preset for each voice. Setting a value adds to or subtracts from the center value 64 since it is an offset parameter. The smaller the value warmer sound will be produced. The effective range may be narrower than the range you can designate depending on the selected voice.
- When the program change message is received the following operations related to the bank select are actually executed:
 Bank select MSB numbers 60H 7EH function the same as MSB00H.
 Bank selectMSB number is other than 00H, 60H 7EH or 7FH, Sience will be selected.
 When the bank select MSB number is 00H, 60H 7EH or 7FH, and the bank select LSB number is illegal, the input will be ignored.

(3-2) CHANNEL MODE MESSAGES

n = 0 - 15 VOICE CHANNEL NUMBER c = CONTROL NUMBER v = DATA VALUE 1011nnnn(BnH) Occcccc

CONTROL VALUE 0vvvvvv

(3-2-1) ALL SOUNDS OFF (CONTROL NUMBER = 78H, DATA VALUE = 0)

All the sounds currently played including the channel messages such as note-on and hold-on in a certain channel are muted when receiving

(3-2-2) RESET ALL CONTROLLERS (CONTROL NUMBER = 79H, DATA VALUE = 0)

	Multi Mode	Performance Mode (Other than part516)
PITCH BEND CHANGE	0 (Center)	<
AFTER TOUCH	0 (Minimum)	<
MODULATION	0 (Minimum)	<
EXPRESSION	127 (Maximum)	<
SUSTAIN SWITCH	0 (Off)	<
SOSTENUTO SWITCH	0 (Off)	<
SOFT PEDAL	0 (Off)	<
NRPN	Not assigned; no chang	ge
RPN	Not assigned; no chang	ge
PORTAMENT CONTROL	Reset	<
PORTAMENTO SWITCH	0 (Off)	1 (On)
FOOT CONTROLLER	Not reset	0 (Minimum)
VOLUME	Not reset	127 (Maximum)
PAN	Not reset	64 (No effect)
REVERB DEPTH	Not reset	64 (No effect)
CHORUS DEPTH	Not reset	64 (No effect)
VARIATION DEPTH	Not reset	64 (No effect)
VIBRATO SPEED(NRPN)	Not reset	64 (No effect)
VIBRATO DEPTH(NRPN)	Not reset	64 (No effect)
VIBRATO DELAY(NRPN)	Not reset	64 (No effect)
AEG DECAY TIME(NRPN)	Not reset	64 (No effect)

(3-2-3) ALL NOTES OFF (CONTROL NUMBER = 7BH , DATA VALUE = 0)

All the notes currently set to on in a certain channel are muted when receiving this message. However, if Hold 1 or Sostenute is on, notes will continue sounding until these are turned off.

(3-2-4) OMNI MODE OFF (CONTROL NUMBER = 7CH, DATA VALUE = 0)

Performs the same function as when receiving ALL NOTES OFF.

(3-2-5) OMNI MODE ON (CONTROL NUMBER = 7DH, DATA VALUE = 0)

Performs the same function as when receiving ALL NOTES OFF

(3-2-6) MONO (CONTROL NUMBER = 7EH, DATA VALUE = 0)

Performs the same function as when receiving ALL SOUNDS OFF.

If the 3rd byte (mono) is within 0 through 16, the channel will be Mode4(m = 1).

2-7) POLY (CONTROL NUMBER = 7FH, DATA VALUE = 0) Performs the same function as when receiving ALL SOUNDS OFF. The channel will be Mode3. (3-2-7) POLY

(3-3) REGISTERED PARAMETER NUMBER

STATUS	1011nnnn(BnH)	n = 0 - 15 VOICE CHANNEL NUMBER
LSB	01100100(64H)	
RPN LSB	0ppppppp	p = RPN LSB(see chart below)
MSB	01100101(65H)	
RPN MSB	0qqqqqq	q = RPN MSB(see chart below)
DATA ENTRY MSB	00000110(06H)	
DATA VALUE	Ommmmmm	m = Data Value
DATA ENTRY LSB	00100110(26H)	
DATA VALUE	01111111	1 = Data Value

First, designate the parameter using RPN MSB/LSB numbers.

Then, set its value with data entry MSB/LSB.

RPN		D.ENTRY		
LSB	MSB	MSB LSB	PARAMETER NAME	DATA RANGE
00H	00H	mmH	PITCH BEND SENSITIVIT	Y 00H - 18H (0 - 24 semitones)
01H	00H	mmH 11H	MASTER FINE TUNE	$\{mmH, 11H\} = \{00H, 00H\} - \{40H, 00H\} - \{7FH, 7FH\}$
				(-8192*100/8192) - 0 - (+8192*100/8192)
02H	00H	mmH	MASTER COARSE TUNE	28H - 40H - 58H (-24 - 0 - +24 semitones)
7FH	7FH		RPN RESET	Cancels RPN numbers.
				The internal value is not affected.

(3-4) NON-REGISTERED PARAMETER NUMBER

STATUS	1011nnnn(BnH)	n	=	0 - 1	L5 VOICE	CHANNEL NUMBER
LSB	01100010(62H)					
RPN LSB	0ppppppp	р	=	NRPN	LSB(see	chart below)
MSB	01100011(63H)					
RPN MSB	0 qqqqqqq	q	=	NRPN	MSB(see	chart below)
DATA ENTRY MSB	00000110(06H)					
DATA VALUE	0 mmmmmm	m	=	Data	Value	

First, designate the parameter using NRPN MSB/LSB numbers. Then, set its value with data entry MSB/LSB.

NRPN	D.ENTRY				
MSB LSB	MSB LSB	PARAMETER NAME	DATA RANGE		
01H 08H	mmH	VIBRATO RATE	00H - 40H - 7FH (-64 - 0 - +63)		
01H 09H	mmH	VIBRATO DEPTH	00H - 40H - 7FH (-64 - 0 - +63)		
01H 0AH	mmH	VIBRATO DELAY	00H - 40H - 7FH (-64 - 0 - +63)		
01H 20H	mmH	FILTER CUTOFF FREQUENCY	00H - 40H - 7FH (-64 - 0 - +63)		
01H 21H	mmH	FILTER RESONANCE	00H - 40H - 7FH (-64 - 0 - +63)		
01H 63H	mmH	EG ATTACK TIME	00H - 40H - 7FH (-64 - 0 - +63)		
01H 64H	mmH	EG DECAY TIME	00H - 40H - 7FH (-64 - 0 - +63)		
01H 66H	mmH	EG RELEASE TIME	00H - 40H - 7FH (-64 - 0 - +63)		
14H rrH	mmH	DRUM INST FILTER CUTOFF FREQ.	00H - 40H - 7FH (-64 - 0 - +63)		
15H rrH	mmH	DRUM INST FILTER RESONANCE	00H - 40H - 7FH (-64 - 0 - +63)		
16H rrH	mmH	DRUM INST AEG ATTACK RATE	00H - 40H - 7FH (-64 - 0 - +63)		
17H rrH	mmH	DRUM INST AEG DECAY RATE	00H - 40H - 7FH (-64 - 0 - +63)		
18H rrH	mmH	DRUM INST PITCH COARSE	00H - 40H - 7FH (-64 - 0 - +63)		
19H rrH	mmH	DRUM INST PITCH FINE	00H - 40H - 7FH (-64 - 0 - +63)		
1AH rrH	mmH	DRUM INST LEVEL	00H - 7FH (0 - Max)		
1CH rrH	mmH	DRUM INST PANPOT	00H ,01H - 40H - 7FH		
			(random,left - center - right)		
1DH rrH	mmH	DRUM INST REVERB SEND LEVEL	00H - 7FH (0 - Max)		
1EH rrH	mmH	DRUM INST CHORUS SEND LEVEL	00H - 7FH (0 - Max)		
1FH rrH	mmH	DRUM INST	00H - 7FH (0 - Max)		
	VARIATION SEND LEVEL				

MSB 14H-1FH(for drum voices) are effective only when the channel is assigned to the drum voice.

(3-5) SYSTEM REAL TIME MESSAGES

(3-5-1) ACTIVE SENSING

(FEH)

Once this code is received, the CS1x starts sensing. When no status nor data is received for over approximately 350 ms, MIDI receiving buffer will be cleared, and the sounds currently played and the sustain switch are forcibly turned off. In this case, each control data will be reset to a certain value.

(3-5-2) TIMING CLOCK(Receive only)

11111000

Selects whether the tempo clock of the Arpeggiator is controlled by internal clock or the timing clock of an external device via MIDI.

(3-6) SYSTEM EXCLUSIVE MESSAGE

(3-6-1)UNIVERSAL NON REALTIME MESSAGE

(3-6-1-1)GENERAL MIDI MODE ON

The following controller values will be reset

VOLUME	100
PAN	Center
PROGRAM CHANGE	1 (Grandpno)
BANK SELECT MSB	0
REVERB DEPTH	4
PITCH BEND CHANGE	0 (Center)
MODULATION	0 (Off)
EXPRESSION	127 (Max)
SUSTAIN SWITCH	0 (Off)
SOSTENUTO SWITCH	0 (Off)
RPN	Not assigned
PORTAMENT CONTROL	Reset
MIDI MASTER VOLUME	127 (Max)
PITCH BEND SENSITIBITY	02 (2 semitones)
FINE TUNING	0
COURSE THATMC	Π

(3-6-1-2)IDENTITY REQUEST(Receive only)

OH 7EH 0nH 06H 01H F7H (n = Device No. However, the CS1x can receive without the device Number setting)

(3-6-1-3)IDENTITY REPLY(Transmit only)

FOH 7BH 7FH 06H 02H 43H 00H 41H ddH ddH 00H 00H 00H vvH F7H dd;Device Number Code CSIx:0 10 02

Vv;TG Support Level CSIx:0 (XG)

(3-6-2)UNIVERSAL REALTIME MESSAGE

(3-6-2-1) MIDI MASTER VOLUME

FOH 7FH 7FH 04H 01H 11H mmH F7H

Sets the MASTER VOLUME value. The value "mm" is used to set the master volume (the value "ll" will be ignored).

(3-6-3)PARAMETER CHANGE

(3-6-3-1) MIDI MASTER TUNING

FOH 43H 1nH 27H 30H 00H 00H mmH 11H ccH F7H

Sets the MASTER TUNING value

and "ll" are used to set the master tuning (the values "n" and "cc" will be ignored).

T = M*200/256-100

"T " indicates the actual tuning value. (-99 - +99) "M" is the one byte value consisting of MSB, 0 - 3 bits of "mm", and LSB, 0 - 3 bits of "ll".

(3-6-3-2) XG SYSTEM ON

Bin	Hex	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0001nnnn	1n	Device Number
01001100	4C	Model ID
Oaaaaaaa	0.0	Address High
Oaaaaaaa	0.0	Address Mid
Oaaaaaaa	7E	Address Low
00000000	0.0	Data
11110111	F7	End of Exclusive

When receiving this message, the internal tone generator will be reset to XG SYSTEM ON. All the parameters will be initialized and reset to each default values. Since approximately 50ms is required to execute this message, be sure to leave an appropriate interval before the

(3-6-3-3) XG PARMETER CHANGE

11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0001nnnn	1n	Device Number
01001100	4C	Model ID
0aaaaaaa	aaaaaaa	Address High
0aaaaaaa	aaaaaaa	Address Mid
0aaaaaaa	aaaaaaa	Address Low
0ddddddd	ddddddd	Data
11110111	F7	End of Exclusive

For parameters with data size of 2 or 4, transmit the appropriate number of data bytes. See MIDI Data Table (page 22-25) for Address and Byte Count.

The following four types of data are transmitted/received (Transmitted only when receiving parameter change request).

XG System Data

Multi Effect Data (ignored in Performance Mode)
Multi Part Data (ignored with Part 1 - 4 in Performance Mode)
Drums Setup Data

(3-6-3-4) CS1x NATIVE PARMETER CHANGE

11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0001nnnn	1n	Device Number
01001011	4B	Model ID
0aaaaaaa	aaaaaaa	Address High
0aaaaaaa	aaaaaaa	Address Mid
0aaaaaaa	aaaaaaa	Address Low
0ddddddd	ddddddd	Data
	1	
11110111	F7	End of Exclusive

For parameters with data size of 2 or 4, transmit the appropriate number of data bytes.

See MIDI Data Table (page 22-25) for Address and Byte Count.

The following four types of data are received.

CS1x System Data

User Performance Common Data User Performance Layer Data

(ignored in Multi Mode) Current Performance Data

(3-6-4)BULK DUMP

(3-6-4-1) XG BULK DUMP

(3-6-4-1) AG BULK DUMP				
11110000	F0	Exclusive status		
01000011	43	YAMAHA ID		
0000nnnn	0n	Device Number		
01001100	4C	Model ID		
0bbbbbbb	bbbbbbb	ByteCount		
0bbbbbbb	bbbbbbb	ByteCount		
Oaaaaaaa	aaaaaaa	Address High		
Oaaaaaaa	aaaaaaa	Address Mid		
Oaaaaaaa	aaaaaaa	Address Low		
00000000	0.0	Data		
0cccccc	cccccc	Check sum		
11110111	F7	End of Exclusive		

See MIDI Data Table (page22-25) for Address and Byte Count.
The Check sum is the value that results in a value of 0 for the lower 7 bits when the Byte Count, Start Address, Data and Check sum itself are added. Don't send the data more than \$13\$ bytes at one time. When the Dump request with the data more than \$13\$ bytes is received, be sure to divide the data into appropriate sizes and send them with appropriate intervals (over 120 ms).

The following five types of data are transmitted/received (Transmitted only when receiving bulk dump request).

System Data
Multi Effect Data(each effect)
Multi Part Data(each Part)
Drums Setup Data(each note)
System Deformation
(ignored with Part 1 - 4 in Performance Mode)
(ignored with Part 1 - 4 in Performance Mode)
(ignored with Part 1 - 4 in Performance Mode)
(ignored with Part 1 - 4 in Performance Mode)

System Information

(Transmit only)

(3-6-4-2) CS1x NATIVE BULK DUMP

11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0000nnnn	0n	Device Number
01001011	4B	Model ID
0bbbbbbbb	dddddd	ByteCount
0bbbbbbbb	dddddd	ByteCount
Oaaaaaaa	aaaaaaa	Address High
Oaaaaaaa	aaaaaaa	Address Mid
Oaaaaaaa	aaaaaaa	Address Low
00000000	0.0	Data
0cccccc	cccccc	Check sum
11110111	77	End of Evaluative

See MIDI Data Table (page 22-25) for Address and Byte Count.

Almost the same as the XG BULK DUMP mentioned above except for the Model ID.

The following four types of data are transmitted/received (Transmitted only when receiving bulk dump request).

CS1x System Data

User Performance Common Data
User Performance Layer Data

Current Performance Data

(3-6-5) DUMP REQUEST

(3-6-5-1) XG DUMP REQUEST

11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0010nnnn	2n	Device Number
01001100	4C	Model ID
Oaaaaaaa	aaaaaaa	Address High
0aaaaaaa	aaaaaaa	Address Mid
Oaaaaaaa	aaaaaaa	Address Low
11110111	F7	End of Exclusive

See MIDI Data Table (page 22-25) for Address and Byte Count.

The following five types of data are received.

System Data

Multi Effect Data(each effect)

Multi Part Data(each Part)

Drums Setup Data(each note) System Information

(3-6-5-2) CS1x NATIVE DUMP REQUEST

(0 0 0 L) 00 1X 1	WILL DOWN I	LGOLOI
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0010nnnn	2n	Device Number
01001011	4B	Model ID
0aaaaaaa	aaaaaaa	Address High
0aaaaaaa	aaaaaaa	Address Mid
Oaaaaaaa	aaaaaaa	Address Low
11110111	E7	End of Evaluative

See MIDI Data Table (page22-25) for Address and Byte Count.

The following four types of data are received.

CS1x System Data

User Performance Common Data

User Performance Layer Data

(ignored in Multi Mode)

(ignored in Multi Mode)

(ignored with Part 1 - 4 in Performance Mode)

(3-6-6)XG PARAMETER REQUEST

_	o opta i / ii b iivie i e i	TILGOLOI	
	11110000	F0	Exclusive status
	01000011	43	YAMAHA ID
	0011nnnn	3n	Device Number
	01001100	4C	Model ID
	0aaaaaaa	aaaaaaa	Address High
	0aaaaaaa	aaaaaaa	Address Mid
	0aaaaaaa	aaaaaaa	Address Low
	11110111	P7	End of Evaluative

See MIDI Data Table (page 22-25) for Address and Byte Count. The following four types of data are received. System Data Multi Effect Data (ignored in Performance Mode)

Multi Part Data (ignored with Part 1 - 4 in Performance Mode) Drums Setup Data

(3-6-7)QS300 NATIVE PARAMETER REQUEST

_	0 . / 40000		~ ~
	11110000	F0	Exclusive status
	01000011	43	YAMAHA ID
	0011nnnn	3n	Device Number
	01001011	4B	Model ID
	Oaaaaaaa	aaaaaaa	Address High
	0aaaaaaa	aaaaaaa	Address Mid
	0aaaaaaa	aaaaaaa	Address Low
	11110111	F7	End of Evaluative

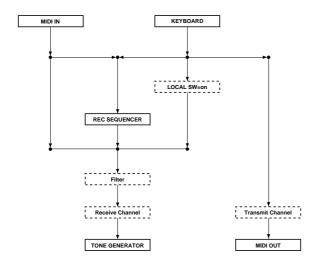
See MIDI Data Table (page 22-25) for Address and Byte Count.

The following four types of data are received. CS1x System Data

User Performance Common Data User Performance Layer Data Current Performance Data

(ignored in Multi Mode)

(4) CONFIGURATION OF KEYBOARD, ARPEGGIATOR AND TONE GENERATOR



The tone generator will respond to both note data received via MIDI and the data generated by the CS1x such as note data and control data.

ALL SOUNDS OFF clears all the sounds in the specific channel played by both the keyboard and the data via MIDI.

MIDI Data Table <1-1 >

Parmeter Bass Address

Fameter bass Address						
	Parameter Ch	ange				
	Address					
	(H) (M)(L)	Description				
SYSTEM	00 00 00	System				
	00 00 7D	Drum Setup Reset				
	00 00 7E	XG System On				
	00 00 7F	All Parameter Reset				
INFORMATION	01 00 00	System Information				
EFFECT 1	02 01 00	Effectl(Reverb,Chorus,Variation)				
	02 40 00	Reserved				
	: : :	:				
MULTI PART	08 00 00					
	08 OF 00	Multi Part 16				
	08 10 00	Reserved				
	: : :	:				
DRUM	30 18 00	Drum Setup 1> Address	Parameter			
DROM	31 18 00		Parameter			
	31 18 00	3n 1800	note number 24			
	32 18 00		note number 25			
	32 18 00		note number 25			
	3F nn nn	Reserved 3n 54 00	note number 84			
	3F III III	Reserved 3H 54 00	note number 84			

MIDI Data Table <1-2>

MIDI Parameter Change table (SYSTEM)

Addres	ss	Size	Data	Prameter Name	Description	Default
(H)		(H)	(H)			Value(H)
00 00	00	4	0000	Master Tune	-102.4+102.3[cent]	00 04 00 00
	01		07FF		1st bit3-0 bit15-12	(0400)
	02				2nd bit3-0 bit11-8 sysytem on or GM on)	(Not to be reset with XG
	03				3rd bit3-0 bit7-4 4th bit3-0 bit3-0	
	04	1	007F	Master Volume	0127	7F
	0.5	1	007F	Not Used		
	06	1	2858	Transpose	-24+24[semitones]	40
	7D	n		Drum Setup Reset	n=Drum Setup Number	
	7E	00		XG System On	00=XG Sytem on (receive on	ly)
	7F	00		All Parameter Reset	00=on (receive only)	
TOTAL	SIZE	6				

MIDI Data Table <1-3>

MIDI Parameter table (System information)

Addres	ss		Data	Prameter Name	Description	
(H)		(H)	(H)			
01 00	0 0	F	207F	Model Name	32127(ASCII)	(CSlx)
	:					
	0E	1	0.0			
	0F	1	0.0	XG Support Level	0127	
TOTAL	SIZ	E 10				
(Trans	smit	ted l	oy Dump	Request. Bulk Dump	Only. No reception.)	

MIDI Data Table <1-4>

MIDI Parameter Change table (EFFECT 1) Prameter Name Description

Addi ess	SIZE	Data	Prameter Name	Description	Delault
(H)	(H)	(H)			Value(H)
02 01 00	2	007F	Reverb Type MSB	see Effect Type List	01(=HALL1)
		007F	Reverb Type LSB	00 : basic type	00
02	1		Reverb Parameter 1	see Effect Parameter List	depends on Reverb type
03	1	007F	Reverb Parameter 2	"	"
04	1	007F	Reverb Parameter 3	"	"
05	1	007F	Reverb Parameter 4	"	"
06	1	007F	Reverb Parameter 5	"	"
07	1	007F	Reverb Parameter 6	"	"
08	1	007F	Reverb Parameter 7	"	"
0.9	1	007F	Reverb Parameter 8	"	"
0A	1	007F	Reverb Parameter 9	"	"
0B	1	007F	Reverb Parameter 10	<i>II</i>	11
0C	1	007F	Reverb Return	0+6dB(096127)	60
0D	1	017F	Reverb Pan	L63CR63(164127)	40
TOTAL SIZE					
02 01 10	1	007F	Reverb Parameter 11	see Effect Parameter List	depends on Reverb type
11			Reverb Parameter 12		"
12			Reverb Parameter 13	"	"
13			Reverb Parameter 14	"	"
14			Reverb Parameter 15	"	"
15			Reverb Parameter 16	"	"
TOTAL SIZ		001171	neverb rarameter ro		
02 01 20	2	007F	Chorus Type MSB	see Effect Type List	41(=Chorus1)
		007F	Chorus Type LSB	00 : basic type	00
22	1		Chorus Parameter 1		depends on Chorus Type
23	1	007F	Chorus Parameter 2	<i>II</i>	"
24	1	007F	Chorus Parameter 3	"	"
25	1	007F	Chorus Parameter 4	<i>II</i>	"
26			Chorus Parameter 5	<i>II</i>	"
27		00 75	Chorus Parameter 6	<i>II</i>	"
	1				
28				"	"
28 29	1	007F	Chorus Parameter 7 Chorus Parameter 8	!! !!	// //
	1	007F 007F	Chorus Parameter 7 Chorus Parameter 8		
29 2A	1 1 1	007F 007F 007F	Chorus Parameter 7 Chorus Parameter 8 Chorus Parameter 9	<i>II</i>	"
29 2A 2B	1 1 1	007F 007F 007F 007F	Chorus Parameter 7 Chorus Parameter 8 Chorus Parameter 9 Chorus Parameter 10	и и	11 11
29 2A 2B 2C	1 1 1 1	007F 007F 007F 007F	Chorus Parameter 7 Chorus Parameter 8 Chorus Parameter 9 Chorus Parameter 10 Chorus Return	" " "0+6dB(096127)	" " 60
29 2A 2B	1 1 1 1	007F 007F 007F 007F	Chorus Parameter 7 Chorus Parameter 8 Chorus Parameter 9 Chorus Parameter 10 Chorus Return Chorus Pan	и и	11 11

Default

```
02 01 30 1 00..7F Chorus Parameter 11 see Effect Parameter List depends on Chorus Type 31 1 00..7F Chorus Parameter 12 " " " "
                                    Chorus Parameter 14
Chorus Parameter 15
            35
                      00..7F
                                    Chorus Parameter 16
TOTAL SIZE 6
02 01 40 2 00..7F Vari. Type MSB
                                                                   see Effect Type List "O5(=DELAY L,C,R)"
          00..7F
42 2 00..7F
00..7F
                                    Vari. Type LSB
Vari. Type LSB
Vari. Param 1 MSB
Vari. Param 1 LSB
                                                                  00: basic type 00
see Effect Parameter List depends on vari. type
                                                                   see Effect Parameter List depends on vari. type " \,
           44 2 00..7F
                                    Vari. Param 2 MSB
                                    Vari. Param 2 MSB
Vari. Param 2 LSB
Vari. Param 3 MSB
Vari. Param 3 LSB
Vari. Param 4 MSB
Vari. Param 4 MSB
Vari. Param 5 MSB
Vari. Param 5 LSB
Vari. Param 5 LSB
                                                                   " see Effect Parameter List depends on vari. type
                       00..7F
           48 2 00..7F
                                                                   see Effect Parameter List depends on vari. type
                                                                   see Effect Parameter List depends on vari. type
                       00..7F
                                   Vari. Param 6 MSB
Vari. Param 6 MSB
Vari. Param 7 MSB
Vari. Param 7 MSB
Vari. Param 7 LSB
Vari. Param 8 MSB
Vari. Param 8 LSB
           4C 2 00..7F
00..7F
                                                                   see Effect Parameter List depends on vari. type
                                                                   " see Effect Parameter List depends on vari. type
           4E 2 00..7F
                       00..7F
          50 2 00..7F
00..7F
                                                                     see Effect Parameter List depends on vari. type ^{\prime\prime}
               52 2 00..7F
                                                                   see Effect Parameter List depends on vari. type
                                                                   see Effect Parameter List depends on vari. type ^{\prime\prime}
                                                                          ..0..+6dB(0..96..127) 60
            58
59
                1 00..01 Vari. Connection 0:insertion,1:system 00
1 00..1F Vari. Part 0:insertion,1:system 00
1 01..7F MW Vari. Ctrl Depth -63..463 40
1 01..7F PC Vari. Ctrl Depth -63..463 40
1 01..7F FC Vari. Ctrl Depth -63..463 40
1 01..7F AC2 Vari. CtrlDepth -63..463 40
            5A
            5D
            5E
TOTAL SIZE 21
02 01 70 1 00..7F Vari. Parameter 11 option Parameter
                                                                                                           depends on vari. type
           70 1 00../F Vari. Parameter 17
71 1 00..7F Vari. Parameter 12
72 1 00..7F Vari. Parameter 13
73 1 00..7F Vari. Parameter 14
74 1 00..7F Vari. Parameter 15
75 1 00..7F Vari. Parameter 16
MIDI Data Table <1-5>
```

MIDI Parameter Change table (MULTI PART) Address Size Data Prameter Name Description

(H)			(H)	(H)			Value(H)
08	nn	00	1	0020	Element Reserve	032	0(Part10),2(Others)
00		01			Bank Select MSB	0127	7F(Part10),00(Others)
					Bank Select LSB	0127	00
		03		007F			00
		0.3				1128	
			1	7F	Rcv Channel	016;116,127;off	Part No.
	nn	05	1	0001	Mono/Poly Mode	0:mono,1:poly	01
	nn	06	1	0002	Same Note Number	0:single	00
					Key On Assign	1:multi	
						2:inst (for DRUM)	
	nn	07	1	0002	Part Mode	0:normal	00 (Other than Part10)
						13:drum thru,drum12	01 (Part10)
	nn	8.0	1	2858	Note Shift	-24+24[semitones]	40
	nn	09	2	00FF	Detune	-12.8+12.7[Hz]	08 00
	nn	0A				1st bit30 bit74	(80)
						2nd bit30 bit30	
	nn	0B	1	007F	Volume	0127	64
	nn	0C	1	007F	Velocity Sense Depth	0127	40
	nn	0D	1	007F	Velocity Sense Offset	0127	40
	nn	0E	1	007F	Pan	0:random	40
						L63CR63(164127)	
	nn	0F	1	007F	Note Limit Low	C-2G8	00
		10		007F	Note Limit High	C-2G8	7F
	nn				Dry Level	0127	7F
	nn			007F	Chorus Send	0127	00
	nn			007F	Reverb Send	0127	28
	nn	14	1	007F	Variation Send	0127	00
	nn	15	1	007F	Vibrato Rate	-64+63	40
	nn	16	1	007F	Vibrato Depth	-64+63	40
	nn	17	1	007F	Vibrato Delay	-64+63	40
	nn	18	1	007F	Filter Cutoff Freq.	-64+63	40
	nn	19			Filter Resonance	-64+63	40
	nn	1A	1	007F	EG Attack Time	-64+63	40
	nn	1B	1	007F	EG Decay Time	-64+63	40
	nn	1C	1	007F	EG Release Time	-64+63	40
	nn	1D	1	2858	MW Pitch Control	-24+24[semitones]	40
	nn	1E	1	007F	MW Filter Control	-9600+9450[cent]	40
	nn				MW Amp. Control	-100+100[%]	40
	nn	20	1	007F	MW LFO PMod Depth	0127	0A
		21		007F	MW LFO FMod Depth	0127	00
	nn	22	1	007F	MW LFO AMod Depth	0127	00
	nn	22	1	2858	Bend Pitch Control	-24+24[semitones]	42
	nn			007F	Bend Filter Control	-9600+9450[cent]	40
	nn				Bend Amp. Control	-100+100[%]	40
		26				0127	00
	nn					0127	00
	nn		1			0127	00
тотг	AL S			00/1	Dema nro Ariou Deptil	02	
1011	0.						

nn	30	1	0001	Rcv Pitch Bend Rcv Ch After Touch Rcv Program Change	off/on	01
nn	31	1	0001	Rcv Ch After Touch	off/on	01
nn	32	1	0001	Rcv Program Change	off/on	01
nn	33	1	00 01	Rcv Program Change Rcv Control Change	off/on	01
nn	3.4	1	0001	Rcv Key's After Touch	off/on	01
						01
nn	35	1	0001	Rcv Note Message	oii/on	
					off/on	01
		1	0001	RCV NRPN	off/on	01(XG),00(GM)
nn	38	1	0001	Rcv Modulation Rcv Volume Rcv Pan	off/on	01
nn	39	1	0001	Rcv Volume	off/on	01
nn	3A	1	0001	Rcv Pan	off/on	01
nn	3B	1	0001	Rcv Expression	off/on	01
		1	00 01	Rcv Expression Rcv Holdl	off/on	01
	35	1	0001	Rev Holdi		01
	3D		0001	RCV Portamento	OII/ON	
	3E	1	0001	Rcv Sostenute	off/on	01
	3F	1	0001	Rcv Soft Pedal	off/on	01
nn	40	1	0001	Rcv Portamento Rcv Sostenute Rcv Soft Pedal Rcv Bank Select	off/on	01(XG),00(GM)
nn	41	1	007F	Scale Tuning C	-64+63[cent]	40
nn	42	1	007F	Scale Tuning C#	-64+63[cent]	40
nn	4.3	1	00 75	Scale Tuning D	-64 +63[gent]	40
1111	4.5	_	0075	Scale fulling b	-04+03[CellC]	
nn	44	1	007F	Scale Tuning D#	-64+63[cent]	40
nn	45	1	007F	Scale Tuning E	-64+63[cent]	40
nn	46	1	007F	Scale Tuning F	-64+63[cent]	40
nn	47	1	007F	Scale Tuning F#	-64+63[cent]	40
nn	48	1	007F	Scale Tuning G	-64+63[cent]	40
nn	40	1	00 75	Scale Tuning C#	-64 +63[gent]	40
1111	43	1	0075	G1- Municipe 3	6463[]	40
nn	4A		007F	Scale funing A	-64+63[Cent]	
nn	4B	1	007F	Scale Tuning A#	-64+63[cent]	40
nn	4C	1	007F	Scale Tuning C Scale Tuning C# Scale Tuning D# Scale Tuning D# Scale Tuning E Scale Tuning F Scale Tuning F Scale Tuning G# Scale Tuning G# Scale Tuning A Scale Tuning A Scale Tuning B	-64+63[cent]	40
nn	4D	1	2858	Ch's AT Pitch Cntrl	-24+24[semitones]	40
nn	4E	1	007F	Ch's AT Filter Cntrl	-9600+9450[cent]	40
	4F	1	00 75	Chis AT Amn Cntrl	-100 +100[8]	40
	50	1	0075	Ch's AT Filter Cntrl Ch's AT Amp. Cntrl Ch's AT LFO PMod	0127	00
	50	-	00	cii b iii bi o iiiod	0	
				Ch's AT LFO FMod	0127	00
nn	52	1	007F	Ch's AT LFO AMod	0127	00
		1	2858	Key's AT Pitch Cntrl	-24+24[semitones] -9600+9450[cent]	40
nn	54	1	007F	Key's AT Filter Cntrl	-9600+9450[cent]	40
nn		1	007F	Key's AT Amp. Cntrl	-100+100[%]	40
nn		1	00 75	Key's AT Amp. Cntrl Key's AT LFO PMod Key's AT LFO FMod	0 127	0.0
		1	0075	Key a AI Bro FMod	0.127	00
nn	5/		007F	Key's AT LFO FMOD	0127	
nn	58	1	007F	Key's AT LFO AMod	0127	00
				AC1(FC) Cntrl Number		10
nn	5A	1	2858	AC1(FC) Pitch Cntrl	-24+24[semitones]	40
nn	5B	1	007F	AC1(FC) Pitch Cntrl AC1(FC) Filter Cntrl	-9600+9450[cent]	40
nn	5C	1	007F	AC1(FC) Amp. CntrJ	-100+100[%]	40
	5D	1	007F	AC1(FC) LFO PMod	0127	00
	5E	1	00 75	ACI(EC) IFO FMod	0 127	00
		1	007F	AC1(FC) Amp. Cntrl AC1(FC) LFO PMod AC1(FC) LFO FMod AC1(FC) LFO AMod	0.127	00
nn	5F	Τ	007F	AC1(FC) LFO AMod	0127	00
	60	1	005F	AC2 Cntrl Number	095	11
nn	61	1	2858	AC2 Pitch Cntrl	-24+24[semitones]	40
nn	62	1	007F	AC2 Filter Cntrl	-9600+9450[cent]	40
nn	63	1	007F	AC2 Amp. Cntrl	095 -24+24[semitones] -9600+9450[cent] -100+100[%]	7F
nn	64	1	00 7F	AC2 LFO PMod	0127	0.0
	65				0127	00
nn	66	1	UU7F	AC2 LFO AMod	0127	00
nn				Portamento Switch		00
nn	68	1	007F	Portamento Time	0127	00
nn				PitchEG Initial Level		40
nn	6A			PitchEG Attack Time		40
				PitchEG Release Level		40
				PitchEG Release Time		40
				Velocity Limit Low		01
	6E		UU7F	Velocity Limit High	1127	7F
OTTAT C						

nn = PartNumber

Default

When a drum voice is assigned to the Part, the following parameters are not effective with the selected Part.

- Bank Select LSB
- Amp EG
 Portamente
- Soft Pedal
- Mono/Poly
 Scale Tuning
- Pitch EG

MIDI Data Table <1-6>

MIDI Parameter Change table (DRUM SETUP)

Add	ress		Size	Data	Prameter Name	Description	Def	ault
(H)			(H)	(H)		***	Va	Lue(H)
3n		00			Pitch Coarse	-64+63	00	(
3n		01			Pitch Fine	-64+63[cent]	0.0	
3n		02			Level	0127		Drum1
	rr	03			Alternate Group			Drum1
3n	rr	0.4		007F	Pan	0:random		Drum1
3		0 1	-	001171	2 011	L63CR63(164127)	210	DI UIIII
3n	rr	05	1	007F	Reverb Send Level	0127	ΧG	Drum1
	rr	06			Chorus Send Level			Drum1
3n		07			Variation Send Level			Drum1
JII	11	0 /	_	00/1	Variation Send Bever	012/	AG	DIUMI
3n	rr	08	1	0001	Key Assign	0;single,1;multi	XG	Drum1
	rr	0.9	1		Rcv Note Off	off/on		Drum1
3.1		0,5	-	0001	(depend on the note)	0227011	210	DIUMI
3n	rr	0A	1	0001	Rcv Note On	off/on	XG	Druml
3n	rr	0в	1	007F	Filter Cutoff Freg.	-6463	0.0	
3n	rr	0C	1	007F	Filter Resonance	-6463	0.0	
3n	rr	0D	1	007F	EG Attack Rate	-6463	0.0	
3n	rr	0E	1	007F	EG Decayl Rate	-6463	0.0	
3n	rr	OF	1		EG Decav2 Rate		0.0	
	AL S		10					

n:Drum Setup Number - 1

rr:note number(0D - 5B)

When receiving XG system on or GMon message, the Drum Setup Parameters will be initialized. Each Drum Setup Parameter can be initialized by Drum Setup Reset message.

MIDI Data Table <1-7>

Effect Type List
*The figures in [] indicate the order to be displayed in the LCD while type selection.

		indicate the order to be displa	ayed in the LCD while typ	e selection.	
	VERB T	YPE			
	PE MSB		TYPE LSB		
	C HEX	00	01	02	
	0 0	[00]No Effect			
	1 1		[02]Rev Hall2		
0.0	2 2	[03]Rev Room1	[04]Rev Room2	[05]Rev Room3	
0.0	3 3 4 4	[06]Rev Stage1	[07]Rev Stage2		
0.0	4 4	[08]Rev Plate			
	5 5	No Effect			
:	:	NO EITECT			
01		No Effect			
01	6 10	[09]Rev WhiteRm			
	7 11	[10]Rev Tunnel			
	8 12	No Effect			
01	9 13	[11]Rev Basement	i.		
02	0 14	No Effect			
:	:	:			
12	7 7F	No Effect			
	ORUS T				
TY	PE MSB		TYPE LSB		
DE	C HEX	00	01	02	0.8
	0 0	[00]No Effect			
0.0	1 1	No Effect			
:		:			
	4 40				
			[02]@howing2	[03]Chorus3	[04] (there = 4
06	5 41	[01]Chorus1	[02]Chorus2		[04]Chorus4
06	6 42 7 43	[05]Celestel	[06]Celeste2	[07]Celeste3	[08]Celeste
0.6	7 43	[09]Flanger1	[10]Flanger2		[11]Flanger3
	8 46	No Effect			
	9 45	No Effect			
:		:			
12	7 7F	No Effect			
VA	RIATIO	N TYPE(0~63)			
	PE MSB		TYPE LSB		
	C HEX	0.0	01	02	
	0 0	[00]No Effect			
	1 1	[01]Rev Hall1	[02]Rev Hall2		
0.0	2 2	[03]Rev Rooml	[04]Rev Room2	[05]Rev Room3	
00	2 2 3		[07]Rev Stage2	tioon varicus	
00	3 3	[06]Rev Stage1	[U/]Rev Stage2		
		[08]Rev Plate			
	5 5	[09]DelayL,C,R			
0.0	6 6	[10]Delay L,R			
0.0	7 7	[11]Echo			
0.0	8 8	[12]CrossDelay			
	9 9	[13]EarlyRef1	[14]EarlyRef2		
	0 A	[15]GateReverb			
01	1 B	[16]ReversGate			
01	1 B 2 C		re\ TUDII(ina\		
. 01			ys),THRU(ins)		
		:			
	9 13	No Effect(sy	ys),THRU(ins)		
	0 14		[18]RevKaraok2	[19]RevKaraok3	
02			ys),THRU(ins)		
:		:			
06	3 3F	No Effect(s	ys),THRU(ins)		
VA	RIATIO	N TYPE(64~127)			
		TYPE LSB			
	C HEX		01	02	0.8
DE	A AO	00 [43]THRII	V.1	U.Z.	00
06	4 40		[01] [01]	f 0.0.1 ml	100141
06	5 41	[20]Chorus1	[21]Chorus2	[22]Chorus3	[23]Chorus4
	6 42	[24]Celestel	[25]Celeste2	[26]Celeste3	[27]Celeste4
	7 43	[28]Flanger1	[29]Flanger2	[30]Flanger3	
06	8 44	[31]Symphonic			
06	9 45	[32]RotarySp.			
07	0 46	[33]Tremolo			
	1 47	[34]Auto PAN			
	2 48	[35]Phaserl	[36]Phaser2		
	3 49	[37]Distortion	. Jojiingel 2		
07	49				
	4 4A 5 4B	[38]Overdrive			
		[39]G-Amp.Sim.			
	6 4C	[40]3 Band EQ			
07	7 4D	[41]2 Band EQ			
07		[42]Auto Wah			
	9 4F	THRU			
:	:	:			
12	7 7F	THRU			

MIDI Data Table <2-1 >

Parameter Bass Address

	Parameter	Change
	Address	
	(H)(M)(L)	Description
SYSTEM	50 00 00	CS1x System
Current Performance	60 00 00	Current Performance Common
	60 01 00	Current Performance Layer1
	60 02 00	Current Performance Layer1
	60 03 00	Current Performance Layer1
	60 04 00	Current Performance Layer1
Jser Performance 1	70 00 00	User Performance Common
:	71 00 00	User Performance Layerl
:	72 00 00	User Performance Layer2
:	73 00 00	User Performance Layer3
:	74 00 00	User Performance Layer4
Jser Performance 2	70 01 00	User Performance Common
:	71 01 00	User Performance Layerl
:	72 01 00	User Performance Layer2
:	73 01 00	User Performance Layer3
:	74 01 00	User Performance Layer4
:		
:		
Jser Performance 128	70 7F 00	User Performance Common
:	71 7F 00	User Performance Layerl
:	72 7F 00	User Performance Layer2
:	73 7F 00	User Performance Layer3
:	74 7F 00	User Performance Layer4

MIDI Data Table <2-2> MIDI Parameter Change to

	(H)		Prameter Name	Description	
(H)					Default
		(H)		Value(H)	
50 00 00	1	0010	Performance	1(0)16(f)	0(1)
			Receive Channel		
01	1		reserved		
0.2	1		reserved		
0.3	1		reserved		
04	1	011	Midi Device Number	1(0)16(f),all(10),off(11)	10(all)
0.5	1		reserved		
06			Sound Module Mode		3(PFM)
07			Keyboard Transpose		40(+0)
0.8	1	0007	Keyboard norm(0)cro	ss2(7)	00(norm)
			Velocity Curve		
0.9			Keyboard Fix Velocity		00(off)
0a	1	00OF	Keyboard	1(0)16(f)	0(1)
			Transmit Channel		
0b			Midi Local	off(0),on(1)	1(on)
0 c			MW Control Number	095	1
0d				095	10
0 e				095	11
0f				095	4A
10				095	47
11				095	49
12			Knob4 Control Number		48
13				095	11
14				095	12
15	1	05F	Foot Switch	095	40
			Control Number		
16				MW(0),FC(1)0(MW)	
17	1	0003	Scene Mode	off(0),S1Sw(1),	0(off)
				S2Sw(2),S.Ct1(3)	
Total s	ize 1	.8			

MIDI Data Table <2-3>

MIDI Parameter Change table (Current Performance Common)

MIDI Pa	aram	neter Ch	iange table (Current l	Performance Common)	
Address	Size	Data	Prameter Name	Description	Default
(H)	(H)	(H)		Value(H)	
60 00 00	1	207F	Performance Name 1	Ascii Code	I
01	1	207F	Performance Name 2	Ascii Code	n
02	1	207F	Performance Name 3	Ascii Code	i
0.3	1	207F	Performance Name 4	Ascii Code	t
04	1		Performance Name 5	Ascii Code	P
0.5	1	207F	Performance Name 6	Ascii Code	e
0.6	1	207F	Performance Name 7	Ascii Code	r
07	1	207F	Performance Name 8	Ascii Code	f
0.8	1	0054	Performance Category	,PfWv	
0.9	1	007F	Common Volume	0127	64(100)
0a	1	007F	Scenel For Knobl	-64+63	40 (+0)
0b	1	007F	Scenel For Knob2	-64+63	40 (+0)
0 c	1	007F	Scenel For Knob3	-64+63	40(+0)
0d	1	007F	Scenel For Knob4	-64+63	40(+0)
0 e	1	007F	Scenel For Knob5	-64+63	40(+0)
0f	1	007F	Scenel For Knob6	-64+63	40(+0)
10	1	007F	Scene2 For Knobl	-64+63	40(+0)
11	1	007F	Scene2 For Knob2	-64+63	40(+0)
12	1	007F	Scene2 For Knob3	-64+63	40(+0)
13	1	007F	Scene2 For Knob4	-64+63	40(+0)
14	1	007F	Scene2 For Knob5	-64+63	40(+0)
15	1	007F	Scene2 For Knob6	-64+63	40(+0)
16	1	007F	Knobl Value	-64+63	40(+0)
17	1		Knob2 Value	-64+63	40(+0)
18	1	007F	Knob3 Value	-64+63	40(+0)
19	1	007F	Knob4 Value	-64+63	40(+0)
1a	1	007F	Knob5 Value	-64+63	40(+0)
1b	1		Knob6 Value	-64+63	40(+0)
1c	2		Knob6 Parameter1 MSB	laver1(0)4(3)	00(layer1)
			Knob6 Parameter1 LSB		00(off)
1e	2		Knob6 Parameter2 MSB		01(layer2)
			Knob6 Parameter2 LSB		00(off)
20	2		Knob6 Parameter3 MSB		02(layer3)
			Knob6 Parameter3 LSB		00(off)
22	2		Knob6 Parameter4 MSB		03(layer4)
		001E	Knob6 Parameter4 LSB	O(off),129	00(off)
24	1		Knob6 Sensitivity1	-32+32	40(+0)
25	1		Knob6 Sensitivity2	-32+32	40(+0)
26	1		Knob6 Sensitivity3	-32+32	40(+0)
27	1		Knob6 Sensitivity4	-32+32	40(+0)
28	1		Knob3 Parameter	off(0),129	00(off)
29	1			0(MIDI),40(1)240(201)	00 65(140)
	-		Arpeggiator Tempo LSB	0(11221),10(1)210(201)	00 05(110)
2b	1		Arpeggiator Type	0(UplOct)31(special17)	09(UpDnBlOct)
2c	1		Arpggiator Subdivide		07(1/16)
2d	1		Arpeggiator On/Off	0(off)/1(on)/2(hold)	00(off,split on
Total si			Impeggiator On/Off	0(011),1(011),2(11014)	oo(oll,spiic on
TOTAL SI	- i- Z				

Address	Size	Data	Prameter Name	Description	Default
(H)	(H)	(H)		value(H)	
60 00 30	2	007F	Reverb Type MSB	See Effect Type List	01(=Hall)
		007F	Reverb Type LSB	00:basic type	00(basic)
32	2	007F	Chorus Type MSB	See Effect Type List	41(=Chorus1)
		007F	Chorus Tyle LSB	00:basic type	00(basic)
34	2	007F	Vari. Type MSB	See Effect Type List	05(=Delay L,C,R)
		007F	Vari. Type LSB	00:basic type	00(basic)
36	2	007F	Vari. Param 1 MSB	See Effect Parameter List	Depends On Vari. Type
		007F	Vari. Param 1 LSB	See Effect Parameter List	Depends On Variation Type
38	2	007F	Vari. Param 2 MSB	See Effect Parameter List	Depends On Variation Type
		007F	Vari. Param 2 LSB	See Effect Parameter List	Depends On Variation Type
3a	2		Vari. Param 3 MSB	See Effect Parameter List	Depends On Variation Type
			Vari. Param 3 LSB	See Effect Parameter List	Depends On Variation Type
3c	2		Vari. Param 4 MSB	See Effect Parameter List	Depends On Variation Type
			Vari. Param 4 LSB	See Effect Parameter List	Depends On Variation Type
3e	2		Vari. Param 5 MSB	See Effect Parameter List	Depends On Variation Type
			Vari. Param 5 LSB	See Effect Parameter List	Depends On Variation Type
40	2		Vari. Param 10 MSB	See Effect Parameter List	Depends On Variation Type
			Vari. Param 10 LSB	See Effect Parameter List	Depends On Variation Type
42	1		reserved	64	40
43	1		FC Vari. Cntrl Depth		40(+0)
44	1		Send Chorus To Reverb		0
45	1		Vari on layer RevSend		28(40)
46	1		Vati on layer ChoSend	0127	0
Total si	ze 1	.7			

MIDI Data Format

Address Size	Data	Prameter Name	Description	Default
(H) (H)	(H)			Value(H)
60 00 50 1	007F	MW Filter Control	-64+63	40 (+0)
51 1	007F	MW LFO PMod Depth	0127	0A(10)
52 1	007F	MW LFO FMod Depth	0127	0
53 1	2858	Bend Pitch Control	-24+24(semitones)	42(+2semitones)
54 1	007F	FC Filter Control	-64+63	40 (+0)
55 1	00	reserved	0	00
56 1	007F	FC LFO FMod Depth	0127	0
57 1	0001	Portamento Switch	off(0),on(1)	0(off)
58 1	007F	Portamento Time	0127	0
Total size 09	9			

MIDI Data Table <2-4>

MIDI Parameter Change table	(Current Performance Laye	r)
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MIDI Par	ame	eter Chang	ge table (Current Perfo		
Address S	ize	Data	Prameter Name	Description	Default
(H)	(H)	(H)			Value(H)
60 OL 00	1	007F	Voice Bank Number MSB	0127	00
01	1	007F	Voice Bank Number LSB	0127	00
02	1	007F	Voice Number	1128	00
03	1	0003	Play Mode	mono(0),poly(1)	1(poly)
04	1	2858	Note Shift	-24+24(semitones)	40(+0)
0.5	2	00FF	Detune	-12.8+12.7(Hz)	08(+0.0Hz)
				1st bit30 >> bit74	00
07	1	007F	Volume	0127	64(100)
08	1	007F	Velocity Sense Depth	0127	40(64)
09	1	007F	Velocity Sens Offset	-64+63	40 (+0)
0a	1	007F	Pan	random(0),L63CR63	40(C)
0b	1	007F	Note Limit Low	C-2G8	00(C-2)
0c	1	007F	Note Limit High	C-2G8	7F(G8)
0d	1	007F	Chorus Send	0127	0.0
0e	1	007F	Reverb Send	0127	28(40)
0f	1	007F	Variation Send	off(0),on(1127)	7F(on)
10	1	0002	LFO Key Sync	FreeRun(0),retrigger(1),-(2)	2(-)
11	1	007F	Filter Cutoff Freq.	-64+63	40(+0)
12	1	017F	Filter Resonance	-63+63	40(+0)
13	1	017F	Amp. EG Attack Time	-63+63	40(+0)
14	1	017F	Amp. EG Decay Time	-63+63	40(+0)
15	1	017F	Amp. EG Release Time	-63+63	40(+0)
16	1	0003	Receive Note(Mute)	off(0),on(1)	1(on)
17	1	007F	PitchEG Initial Level	-64+63	40(+0)
18	1	017F	PitchEG Attack Time	-63+63	40(+0)
19	1	017F	PitchEG Release Time	-63+63	40(+0)
1a	1	007F	PitchEG Release Level	-64+63	40(+0)
1b	1	017F	Velocity Limit Low	1127	01
1c	1	017F	Velocity Limit High	1127	7F(127)
1d	1	007F	Amp. EG Sustain Level	-64+63	40(+0)
1e	1	017F	LFO Speed	-63+63	40(+0)
1f	1	007F	LFO Wave	03(saw,tri,S&H,)	3 ()
20	1	215F	LFO AMod Depth	-31+31	40(+0)
21	1	017F	LFO PMod Depth	-63+63	40(+0)
22	1	314F	LFO FMod Depth	-15+15	40(+0)
	1	017F	FilterEG Attack Time	-63+63	40(+0)
	1	017F	FilterEG Decay Time	-63+63	40(+0)
	1	007F	FilterEG Sus Level	-64+63	40(+0)
	1	017F	FilterEG Release Time	-63+63	40(+0)
27	1		PitchEG Attack Level	-64+63	40(+0)
28	1	017F	PitchEG Decay Time	-63+63	40(+0)
Total siz					-17

- 1 =1 ;Layer1 2 ;Layer2 3 ;Layer3 4 ;Layert4

MIDI Data Table <2-5>

MIDI Parameter Change table (User Performance Common)

Address	Size	Data	Prameter Name	Description	Default
(H)		(H)	(H)		Value(H)
70 pp 00	1	207F	Performance Name 1	Ascii Code	I
01	1	207F	Performance Name 2		Ascii Coden
02	1	207F	Performance Name 3		Ascii Codei
03	1	207F	Performance Name 4		Ascii Codet
04	1	207F	Performance Name 5		Ascii CodeP
05	1	207F	Performance Name 6		Ascii Codee
06	1	207F	Performance Name 7		Ascii Coder
07	1	207F	Performance Name 8		Ascii Codef
08	1	0054	Performance Category		,PfWv
09	1	007F	Common Volume	0127	64(100)
0a	1	007F	Scenel For Knobl	-64+63	40 (+0)
0b	1	007F	Scenel For Knob2	-64+63	40 (+0)
0c	1	007F	Scenel For Knob3	-64+63	40 (+0)
0d	1	007F	Scenel For Knob4	-64+63	40 (+0)
0e	1	007F	Scenel For Knob5	-64+63	40 (+0)
0f	1	007F	Scenel For Knob6	-64+63	40 (+0)
10	1	007F	Scene2 For Knobl	-64+63	40 (+0)
11	1	007F	Scene2 For Knob2	-64+63	40 (+0)
12	1	007F	Scene2 For Knob3	-64+63	40(+0)
1.3	1	007F	Scene2 For Knob4	-64+63	40(+0)
14	1	007F	Scene2 For Knob5	-64+63	40 (+0)
15	1	007F	Scene2 For Knob6	-64+63	40 (+0)
16	1	007F	Knobl Value	-64+63	40 (+0)
17	1	007F	Knob2 Value	-64+63	40 (+0)
18	1	007F	Knob3 Value	-64+63	40 (+0)
19	1	007F	Knob4 Value	-64+63	40 (+0)
1a	1	007F	Knob5 Value	-64+63	40(+0)
1b	1	007F	Knob6 Value	-64+63	40 (+0)
1c	2	0004	Knob6 Parameter1 MSB	layer1(0)4(3)	00(layer1)
		001E	Knob6 Parameter1 LSB	off(0),129	00(off)
1e	2	0004	Knob6 Parameter2 MSB	layer1(0)4(3)	01(layer2)
		001E	Knob6 Parameter2 LSB	0(off),129	00(off)
20	2	0004	Knob6 Parameter3 MSB	layer1(0)4(3)	02(layer3)
		001E	Knob6 Parameter3 LSB	0(off),129	00(off)
22	2	0004	Knob6 Parameter4 MSB	layer1(0)4(3)	03(layer4)
		001E	Knob6 Parameter4 LSB	0(off),129	00(off)
24	1	2060	Knob6 Sensitivityl	-32+32	40(+0)
25	1	2060	Knob6 Sensitivity2	-32+32	40(+0)
26	1	2060	Knob6 Sensitivity3	-32+32	40(+0)
27			Knob6 Sensitivity4	-32+32	40(+0)
28	1		Knob3 Parameter	off(0),116	00(off)
29	1		Arpeggiator Tempo MSB	0(MIDI),40(1)240(201)	00 65(140)
		007F	Arpeggiator Tempo LSB		

		Arpeggiator Type	0(UplOct)31(special17)	
		Arpggiator Subdivide	0(3/8)9(1/32)	07(1/16)
2d 1	0005	Arpeggiator On/Off	0(off)/1(on)/2(hold)	00(off,split on)
			bit2=split on/off	
Total size	2e			
Address Siz	e Data	Prameter Name	Description	Default
(H) (H) (H)			Value(H)
70 pp 30 2	007F	Reverb Type MSB	See Effect Type List	01(=Hall)
	007F	Reverb Type LSB	00:basic type	00(basic)
32 2	007F	Chorus Type MSB	See Effect Type List	41(=Chorus1)
		Chorus Tyle LSB	00:basic type	00(basic)
34 2		Vari. Type MSB	See Effect Type List	05(=Delay L,C,R)
		Vari. Type LSB	00:basic type	00(basic)
36 2		Vari. Param 1 MSB	See Effect Parameter List	
30 2		Vari. Param 1 LSB	See Effect Parameter List	
38 2	007F		See Effect Parameter List	
30 2		Vari. Param 2 LSB	See Effect Parameter List	
3a 2		Vari. Param 3 MSB	See Effect Parameter List	
Ja 2	007F		See Effect Parameter List	
20 2		Vari. Param 4 MSB	See Effect Parameter List	
3C 2		Vari. Param 4 LSB	See Effect Parameter List	
2- 2				
3e 2		Vari. Param 5 MSB	See Effect Parameter List	
		Vari. Param 5 LSB	See Effect Parameter List	
40 2	007F		See Effect Parameter List	
		Vari. Param 10 LSB	See Effect Parameter List	
	40	reserved	64	40
		FC Vari. Cntrl Depth		40(+0)
		Send Chorus To Reverb	0127	0
Total size	15			
Address Siz	e Data	Prameter Name	Description	Default
(H) (H) (H)			Value(H)
70 pp 50 1	007F	MW Filter Control	-64+63	40(+0)
51 1	007F	MW LFO PMod Depth	0127	0A(10)
52 1	007F	MW LFO FMod Depth	0127	0
53 1	2858	Bend Pitch Control	-24+24(semitones)	42(+2semitones)
54 1	007F	FC Filter Control	-64+63	40(+0)
55 1	0.0	reserved	0	00
56 1	007F	FC LFO FMod Depth	0127	0
		Portamento Switch	off(0),on(1)	0(off)
		Portamento Time	0127	0
Total size				-

pp = Performance Number(00...7F)

MIDI Data Table <2-6>

MIDI Parameter Change table (Current Performance Layer)

Address S	51ze	Data	Prameter Name	Description	Default
(H)	(H)	(H)			Value(H)
71 pp 00	1	007F	Voice Bank Number MSB	0127	0.0
01	1	007F	Voice Bank Number LSB	0127	0.0
02	1	007F	Voice Number	1128	0.0
0.3	1	0003	Play Mode	mono(0),poly(1)	1(poly)
04	1	2858	Note Shift	-24+24(semitones)	40(+0)
05	2	00FF	Detune	-12.8+12.7(Hz)	08(+0.0Hz)
				1st bit30 >> bit74	00
07	1	007F	Volume	0127	64(100)
08	1	007F	Velocity Sense Depth	0127	40(64)
09	1	007F	Velocity Sens Offset	-64+63	40(+0)
0a	1	007F	Pan	random(0),L63CR63	40(C)
0b	1	007F	Note Limit Low	C-2G8	00(C-2)
0c	1	007F	Note Limit High	C-2G8	7F(G8)
0d	1	007F	Chorus Send	0127	00
0e	1	007F	Reverb Send	0127	28(40)
0f	1	007F	Variation Send	off(0),on(1127)	7F(on)
10	1	0002	LFO Key Sync	FreeRun(0), retrigger(1), -(2) 2(-)
11	1	007F	Filter Cutoff Freq.	-64+63	40(+0)
12	1	017F	Filter Resonance	-63+63	40(+0)
13	1	017F	Amp. EG Attack Time	-63+63	40(+0)
14	1	017F	Amp. EG Decay Time	-63+63	40(+0)
15	1	017F	Amp. EG Release Time	-63+63	40(+0)
16	1	0003	Receive Note(Mute)	off(0),on(1)	1(on)
17	1	007F	PitchEG Initial Level	-64+63	40(+0)
18	1	017F	PitchEG Attack Time	-63+63	40(+0)
19	1	017F	PitchEG Release Time	-63+63	40(+0)
1a	1	007F	PitchEG Release Level	-64+63	40(+0)
1b	1	017F	Velocity Limit Low	1127	01
1c	1	017F	Velocity Limit High	1127	7F(127)
1d	1	007F	Amp. EG Sustain Level	-64+63	40(+0)
1e	1	017F	LFO Speed	-63+63	40(+0)
1f	1	007F	LFO Wave	03(saw,tri,S&H,)	3 ()
20	1	215F	LFO AMod Depth	-31+31	40(+0)
21	1	017F	LFO PMod Depth	-63+63	40(+0)
22	1	314F	LFO FMod Depth	-15+15	40(+0)
23	1	017F	FilterEG Attack Time	-63+63	40(+0)
24	1	017F	FilterEG Decay Time	-63+63	40(+0)
25	1	007F	FilterEG Sus Level	-64+63	40(+0)
26	1	017F	FilterEG Release Time	-63+63	40(+0)
27	1	007F	PitchEG Attack Level	-64+63	40(+0)
28	1	017F	PitchEG Decay Time	-63+63	40(+0)
Total si	ze 2	29			

pp = Performance Number(00...7F)
1 =1 ;Layer1
2 ;Layer2
3 ;Layer3
4 ;Layer4

: : Function :			Recognized:		: Remarks :	
 Basic Channel	Default : Changed :		+ : 1 - 16 : 1 - 16		+ : Memorized :	
Mode	Default : Messages : Altered :		+ : 1 - 4(m=1) : 1 - 4(m=1) : x	*2		
Note Number :		0 - 127	+ : 0 - 127 : 0 - 127	*1	+ : Transpose :	
Velocity	Note ON :	o 9nH,v=1-127 x 9nH,v=0	: o v=1-127		+ : :	
		x x	: o : o	*1 *1		
Pitch Ber	nder :	о	: o 0-24 semi	*1	* :	
	91,93,94 96,97 98,99 100,101 120 121	x x x x x x x x x x x x x x x x x x x	: 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0	*1 *1 *1	:Data Entry MSB:Data Entry LSB:Assignable Cntrl:Sound Controller:Portamento Cntrl:Effect SendLevel:Data Inc,Dec:NRPN LSB,MSB:RPN LSB,MSB:All Sound Off:Reset All Cntrls	
Prog Change :	True #	0 0 - 127 ********	: 0 - 127		:	
System Ex	xclusive :		: 0	*3	:	
: Common :	Song Pos Song Sel Tune	x x x	: x : x : x		: :	
System Real Time	:Clock :Commands:	x x	: x		: :	
Aux :Loc :All Mes- :Act sages:Res Notes:*1 *2	m is always	x x o x filter switch is treated as "1"	regardless of		: : +	
*3	transmit/re	eceive if exclusi	ve switch is c	n.		

